Volume 162 No. 16

Oil, Paint and Drug Reporter

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OCT 20 1952

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Stockpiling Intensified Under New ODM Plan

An intensified program of stockpiling nd conservation of a selected group of ighly strategic items, based on require-nents of five years of full mobilization, vas announced October 16 by Henry H. owler, director of the Office of Defense fobilization, with the issuance of ODM rder No. 22.

Essentially the program amounts to es-ablishment of a new super-strategic list f commodities that are of high urgency n time of war, which are to be tagged s "Band I" materials, and concentrating ll efforts at building up a supply suffi-ient to last over five years of war. The ems immediately involved were not an-ounced, but were understood to be most-y alloying materials such as nickel, co-alt, columbiam, tantalum and beryllium.

lay Affect Chemicals

The possibility exists that items more losely associated to the chemical in-ustry might be placed on the list by eason of the fact that the Defense Pro-uction Administration is instructed by ne terms of the order to periodically re-iew the strategic and critical materials tockpile list and make appropriate hanges in the materials included in Band I."

As set forth in the order "all respon-ble agencies will intensify their current ctivities to (a) expand supply, (b) elim-nate unessential requirements for these Band I' materials so that, in case of full obilization, shortages of these strategic aterials will not be a limiting factor in eeting the major end-item program of ne Department of Defense."

The major points in the order are iese:—

lajor Points of Order

1. The DPA will prepare orderly an-yses of the demand-supply position of Band I" materials. This will permit the overnment to judge the size of the risk ntailed by the prospective shortages and

—*Continued on page 79*

FC Rejects Loan Bid

An application from the National Farm-rs Union Service Corporation of Denver, ol., for a loan of $8,025,000 from the Re-onstruction Finance Corporation was rned down by the agency last week. he company had applied for financing r construction of a phosphate plant and otash plant, procurement of related equip-ent, and for exploration and research. FC did not announce its reasons for re-cting the application.

Fertilizer Bids Wanted On Formosa Shipment

Invitations were issued to the fertilizer manufacturers last week by the General Services Administration to submit bids for furnishing 6,000 metric tons of nitrogen (approximately 30,000 metric tons of fertilizer) for delivery to Formosa. The agency asked that the bids be made by 2 p.m., EST, October 27. The first shipment is to be made not later than December 15. There will be no public opening of the bids.

The announcement stated that the following materials would be acceptable in this order of preference: —(1) Ammonium sulphate, minimum 20 percent nitrogen, in bulk or bags; (2) ammonium sulphate nitrate, minimum 25 percent nitrogen, bulk or bags; (3) ammonium nitrate, minimum 33 percent nitrogen, in bags, and (4) calcium ammonium nitrate, minimum 20 percent nitrogen, in bags.

Paraphenylphenol Resin Seen Short Until After January 1

Paraphenylphenol resin will be in short supply for some time after the first of the year, the marine paint industry advisory committee was told last week by the National Production Authority. NPA officials said 40 percent of the supply now is going to the Navy for marine paint but the demand may be reduced. This would permit more resin for defense supporting industries, especially in making insulating varnishes.

The committee was told that methylene chloride for non-flammable paint removers presently is in balance. However, NPA said defense requirements for the next three months will exceed production. NPA told the members that there would be a deficit in titanium dioxide expansion goal by 1954 unless new facilities for the production of about 50,000 tons could be completed by that time.

Cobalt still is in short supply, it was reported, and with the increase of jet engine production supplies for civilian use may become even more scarce. Chromite for color production is in balance, NPA officials said, but the situation could change if military requirements should increase.

DPA Grants Additional Tax Aid

Certificates of necessity for accelerated nortization of the costs of new defense cilities were issued in additional areas the chemical industry during the period ctober 2 to 8 by the Defense Production dministration, it was announced last eek.

The product involved, applicant com-ny, plant location, cost of the project rtified for amortization and percentage lowed, follows:—

Chemicals — Dow Chemical Company, eeport, Tex., $1,199,190 certified and 45 rcent allowed; Diamond Alkali Com-ny, Painesville, Ohio, $741,000 certified d 45 percent allowed.

Herbicide — Ethyl Corporation, Baton ouge, La., $2,700,000 certified and 35 per-nt allowed.

Oxygen and Acetylene—Air Products, c., two projects at Walkerton, Ind., ,501 certified for one project and 45 rcent allowed, $113,000 certified on the her and 50 percent allowed; two oxygen ojects at Emaus, Pa., $9,530 certified on e and $12,400 on the other and 45 per-nt allowed on both; oxygen and acetyl-e project at Iseline, N. J., $12,602 certi-d and 45 percent allowed; another at rgen County, N. J., $57,797 certified and percent allowed; another project at rkersburg, W. Va., $4,931 certified and percent allowed.

Perchloroethylene — Diamond Alkali, inesville, Ohio, $1,070,000 certified and percent allowed.

Phosphate Rock — Virginia-Carolina emical Corporation, Nichols, Fla., $1,-6,981 certified on one part of the project d 50 percent allowed, and $300,745 certified on another part of the project and 25 percent allowed: Brunswick-Balke-Collender Company, Muskegon, Mich., $174,-838 certified and 65 percent allowed.

Phosphatic Fertilizer—Simplot Fertilizer Company, Pocatello, Idaho, $1,022,752 certified and 45 percent allowed.

Urea for fertilizer—Allied Chemical & Dye Corporation, Lawrence County, Ohio, $4,200,000 certified and 45 percent allowed.

Yellow fever vaccine for the Armed Services—National Drug Company, Swiftwater, Pa., $71,908 certified and 75 percent allowed.

Trade Concession Changes To Go Under US Scrutiny

A Presidential order directing the Tariff Commission to keep under review developments with regard to products on which trade agreement concessions have been modified or withdrawn under the so-called "escape clause," was issued last week by the White House.

The commission also was instructed to make periodic reports, in each case not more than two years after the action became effective and annually thereafter so long as the concession remains in effect. In addition the commission is to institute a formal investigation, in any case whenever it feels that changed conditions warrant it, to determine whether the "escape clause" action needs to be continued or modified. Provision was made for public hearings.

Chemical Industry Reported Slow In Completing Expansion Projects

Progress towards completion of production expansion projects in the chemical industry, covered by certificates of necessity issued by the Defense Production Administration, was shown to be lagging behind most other industry groups as of September 30 in an analysis of the facilities expansion program issued by the agency last week.

Although considerable progress had been made in several lines of products in the third quarter after the second quarter slowdowns because of lack of steel, inorganic chemicals expansion was only 32 percent complete on September 30, plastic materials 35 percent synthetic fibers 45 percent and organic chemicals 48 percent.

The report of the DPA analyzed the progress towards completion of facilities covered by certificates of necessity issued only through June 30. Since that time a great number of additional certificates have been issued covering major expansions in chemical lines falling within the various groupings, including over a dozen projects approved during the period October 6 to 8 (see elsewhere in this issue).

670 Chemicals Certificates

As of June 30, DPA had issued 11,032 certificates covering $21,225,675,000 of new plants and facilities. On that date 50 percent of the cost or $10,495,640,000 were in place, and by September 30 it had risen to $12,145,210,000 or 57 percent. Included among the 11,032 certificates were 670 certificates issued to cover expansions in chemicals production.

The greatest progress towards completion of expansions in the chemical lines was in the case of pharmaceutical preparations, while the least progress was shown for industrial inorganic chemicals. There were twenty-eight certificates covering pharmaceutical expansions issued as of June 30 totaling $62,892,000. On that date $55,857,000 or 89 percent of the cost was in place, and by September 30 it had risen to $59,230,000 or 94 percent of the cost.

Progress with reference to the other chemical groups was shown by the analysis to be as follows:—

Alkalies and chlorine—Fifty-five certificates covering $293,089,000 of costs, $155,562,000 or 53 percent in place on June 30 and $187,636,000 or 64 percent in place on September 30.

By-product coke-ovens—Thirty-five certificates covering $198,344,000 of costs, $93,505,000 or 47 percent in place on June 30 and $107,909,000 or 54 percent in place on September 30.

Compressed and liquefied gases—Sixty-five certificates covering $110,319,000 of costs, $75,103,000 or 68 percent in place on June 30 and $84,713,000 or 77 percent in place on September 30.

Industrial inorganic chemicals — Two hundred and thirty-five certificates covering $815,679,000 of costs, $200,476,000 or 25 percent in place on June 30 and $264,-690,000 or 32 percent in place on September 30.

Industrial organic chemicals—One hundred and fifty-six certificates covering $608,972,000 of costs, $257,068,000 or 42 percent in place on June 30 and $289,811,-000 or 48 percent in place on September 30.

Plastic materials—Seventy-nine certificates covering $198,830,000 of costs, $54,-

—*Continued on page 85*

Coal Chemicals Expansion Projects Listed by DSFA

New projects costing $96,028,377 for expansion of coke and coal chemicals production were granted certificates of necessity for rapid amortization costs during the period March 1 through September 30, 1952, according to the Defense Solid Fuels Administration last week. Since the start of the defense mobilization program, coke and coal chemical projects costing about $355,000,000 have been certified.

Companies whose projects have been approved during the March 1-September 30 period and the percentage of cost allowed accelerated amortization were:—

American Steel & Wire Company, Cleveland, Ohio, 45 percent of $1,700,000; Delaware River Steel Corporation, Claymont, Del., 85 percent of $12,100,000; Kemmerer Coal Company, Frontier, Wyo., 85 percent of $159,200; Milwaukee Solvay Coke Company, Milwaukee, Wis., 50 percent of $3,322,500; Moss Iron Company, Trafford, Ala., 85 percent of $227,638; National Tube Company, Lorain, Ohio, 50 percent of $6,303,000; Philadelphia Coke Company, Philadelphia, 30 percent of $125,000; Pittsburgh Steel Company, Pittsburgh, Pa., 85 percent of $11,240,000.

Also, Sykesville Coke Company, Sykesville, Pa., 60 percent of $160,000; Tennessee Coal, Iron & Railroad Company, Fairfield, Ala., 45 percent of $5,330,000; United States Steel Company, at Gary, Ind., 45 percent of $14,192,000 and at Clairton, Pa., 25 percent of $20,888,539 and 45 percent of $15,070,000; Wheeling Steel Corporation, Follensbee, W. Va., 45 percent of $5,210,500.

Superphosphate Ceiling Raised at Lake Charles

The ceiling price for sales of run-of-the-pile pulverized superphosphate at the production point of Lake Charles was raised to $1.015 per unit of available phosphoric acid by the Office of Price Stabilization last week in amendment 2 to CPR 137.

The present ceiling of 94 cents per unit of APA for ordinary superphosphate when sold in bulk to other fertilizer manufacturers now prevails at Lake Charles. It was arrived at by grouping Lake Charles with other Gulf Coast production points in Louisiana and Texas, which receive shipments of the basic raw material, phosphate rock, by barge from sources of supply in Florida.

OPS said that additional information received since the issuance of CPR 137 discloses that shipments of phosphate rock to Lake Charles are not made by barge and therefore a superphosphate producer at that production point does not enjoy the same low freight costs as are available to producers operating plants at other Gulf Coast production points. Freight costs for phosphate rock constitute nearly 25 percent of the current selling price of superphosphate at Lake Charles.

Shreveport, La., is the closest competitive inland production point to Lake Charles.

OPS Exempts Some Small Makers From Price Control

The Office of Price Stabilization exempted certain small manufacturers whose annual gross sales do not exceed $25,000 from price control October 17 by amendments No. 38 to CPR 30 and No. 1 to CPR 150. The exemption applies to a manufacturer whose gross sales for all manufacturing units under his ownership or control did not exceed $25,000 in his last complete fiscal year, ending before July 1, 1952. It also applies to a manufacturer who did not complete a fiscal year before July 1, 1952, and whose gross sales are not expected to exceed $25,000 in his first complete fiscal year.

Acetic Acid Supply Goal Put at 740,000,000 Pounds

An expansion goal for acetic acid calling for an annual supply of 740,000,000 pounds by January 1, 1955, was announced October 16 by the Defense Production Administration. This will require an increase in productive capacity of 107,000,000 pounds over January 1, 1951.

DPA stated that the required increase will be met in part by recommended applications for certificates of necessity and the remainder by unassisted expansion. Although some acetic acid is still produced as a by-product of hardwood distillation, the agency pointed out that its principal source is now from oxidation of hydrocarbons of ethyl alcohol.

DPA said that because no expansion has been established for acetate rayon, the 1955 goal for acetic acid includes no allowance for growth in acetate rayon capacity beyond the level already attained in 1951.

Rare Earth Compound Export Quotas Set Up

Fourth quarter 1952 export quotas for rare earth compounds, a number of which have not been exportable since May 15, 1951, because of short supply, were announced October 13 by the Office of International Trade. Quotas are stated in terms of rare earth oxide equivalent and apply to compounds classified under the following schedule B numbers 839900, 839750 and 829970, OIT said.

Compounds containing all rare earths, such as rare earth fluoride, chloride and oxide may be licensed up to a total of 100,000 pounds of rare earth oxide content, OIT said. Didymium compounds containing all rare earths except cerium may be licensed up to 3,000 pounds. Other quotas announced are for 17,000 pounds of cerium compounds, 8,000 pounds of lanthanum compounds, 6,500 pounds of neodymium compounds, and 2,000 pounds of praseodymium compounds. In addition, OIT said it would license export of sample quantities of samarium, gadolinium, yttrium, and other rare earth compounds not included above which are needed for scientific research or other experimental purpose.

Development of deposits of monazite sand in Florida and Idaho and bastnesite ore in California is expected by mid-1953 to result in an ample surplus of rare earth compounds above US defense and civilian needs, the agency stated. This development already has permitted OIT to license a total of 133,000 pounds of rare earth fluoride in the second and third quarters of 1952, officials said.

Last week's announcement extends the two previous quarter's quotas to include all rare earth chemicals. Fourth quarter quotas do not include the rare earth metals nor alloys, nor the ores and ore concentrates from which the rare earth chemicals are prepared, OIT pointed out.

Solvay to Continue Rebuilding At Syracuse Soda Ash Unit

Announcement of plans to proceed with the second step in the rebuilding of the soda ash manufacturing facilities at the Syracuse, N. Y., plant of Solvay Process Division, Allied Chemical & Dye Corporation, New York, was made last week.

The newest project in Solvay's modernization and expansion program at Syracuse, involving practically a duplicate of the soda ash plant recently completed and dedicated, will require an expenditure for building and equipment in excess of $10,000,000. A. B. Chadwick, Solvay president, said that preliminary work will be started immediately with the job expected to take nearly two years to complete.

Sections of the building will rise to a height of more than two hundred feet, watching the first part of the new plant which has been in operation since last May. The initial unit of the new soda ash plant was planned with extension in mind. Both east and west sides were enclosed by temporary metal sheathing to permit further expansion. Part of the existing old soda ash plant which was constructed in 1912 and is still in operation will be razed to make way for the addition.

Spencer Chemical Opens Chicago, Memphis Offices

Spencer Chemical Company, Kansas City, Mo., has announced the opening of two new district sales offices. The north central district sales office will be located in the First National Bank Building, Chicago, and the mid-south district sales office will be in the Union Planters Bank Building, Memphis, Tenn.

S. R. White, until recently Spencer sales representative in the Indiana-Kentucky territory, has been named north central district sales manager. W. E. Hubbard, sales representative in the Mississippi-Arkansas territory, has been made district sales manager in the mid-south. Mr. White has been with Spencer since 1946, and previously was associated with Swift & Co. Mr. Hubbard joined Spencer in 1949. He was previously with the Barrett Division of Allied Chemical & Dye Corporation, the Mississippi Extension department and with the Department of Agriculture.

Clapp Quits Stein, Hall

Oliver H. Clapp has resigned as vice-president and director of Stein, Hall & Co., New York, it was announced last week. Mr. Clapp, who was with Stein, Hall for twenty-six years, was also general sales manager of the firm.

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Nickel Accords Signed With 2 Canadian Firms

Contracts were signed last week by two Canadian firms and the Defense Materials Procurement Agency to increase supplies of nickel available to this country by 4,104,000 pounds over the next few years.

A contract with Milnet Mines, Ltd., of Toronto, provides that the company shall start mining ore from its properties in the Sudbury district of Ontario beginning not later than March 1, 1953, and produce ore at an average rate of 2,100 short tons per week to the end of 1954. Falconbridge Nickel Mines, Ltd., of Toronto, will process the ore for the government.

The nickel will be purchased by DMPA at a price of 56.66 cents per pound. Small amounts of copper, platinum and palladium also will be acquired. The platinum will be purchased at $93 per troy ounce and the palladium at $21.50 per troy ounce.

Austria to Buy Sulphur Under MSA Financing

The Mutual Security Agency has granted authority to Austria, under procurement authorization No. 31-640-00-3005, to use MSA financing to the extent of $130,000 for procurement of approximately 51,000 metric tons of crude sulphur, with the contracting period ending February 28, 1953, it was announced by the agency last week.

Interested American suppliers were advised to notify their clients and sales representatives abroad immediately that this authorization has been granted so that they may arrange for contracts. Firms without clients or representatives in Austria may secure the names and addresses of Austrian importers by consulting the World-Trade lists compiled by the Office of International Trade. These lists may be seen at any one of the forty-two Commerce department field offices.

Tenn. Eastman Making Two New High Boiling Solvents

Tennessee Eastman Company, Kingsport, Tenn., has developed and made available, for the first time in commercial quantities, two new solvents, 3-methoxybutyl acetate and 3-methoxybutyl alcohol. The company reports that a preliminary investigation of the properties of these two compounds show them to qualify favorably as high boiling lacquer solvents.

In a bulletin covering the two solvents Tennessee Eastman describes 3-methoxybutyl alcohol as a colorless liquid with a mild odor characteristic of high molecular weight alcohols. Its high boiling range, 157-162°C., and high dilution ratio is said to indicate its usefulness as a retarder type lacquer component. 3-methoxybutyl acetate is described as a colorless liquid with a pleasant fruity odor, milder than the acetic esters of low molecular weight alcohols. Experimental lacquers containing this high boiling solvent (164-174°C.) indicate its effectiveness in retarding blush and as a promoter of flow and high gloss, the company said. Copies of the bulletin are available upon request to the chemical sales division, Tennessee Eastman Company, Kingsport, Tenn.

Standards Ass'n Medal Goes to F.O. Hoagland

The standards medal for leadership in the development and application of voluntary standards goes this year to Frank O. Hoagland, master mechanic of the Pratt & Whitney Division, Niles-Bement-Pond Company, West Hartford, Conn. Given annually by the American Standards Association for outstanding service and leadership in the cause of standardization, this is the second such award.

Formal presentation will be made at the association's thirty-fourth annual meeting luncheon at the Waldorf-Astoria hotel, New York, November 25.

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Price Index Advances

The overall price index advanced 0.11 point last week. The fats, oils and waxes and essential oils markets featured the strongest index deviations. Cardamom, lemongrass and bois de rose oils were reduced in the essential oils market. Price changes in the fats, oils and waxes market included advances in copra and oleo, soybean, and peanut oils, while tung oil was reduced. Also reduced in this market were peanut and soybean meal as well as tallow and No. 3 crude carnauba wax.

The botanicals section was the sole market to register any significant rise in index aside from a very slight rise in the drugs and fine chemicals market. Featured as advancing in botanicals were ginseng root and Peru balsam as well as Madagascar clove, red pepper and vanilla beans. Iranian cumin seed and white pepper were among the reduced items in this market. In drugs and fine chemicals there was a further reduction in bulk isoniazid, Brazilian menthol and blackstrap molasses.

Lead metal was reduced in the heavy chemicals section, which in turn produced reductions in lead pigments in the protective coatings market. Also reduced in this market were Argentine casein, leaded zinc oxide, and litharge. The petroleum derivatives section included a reduction in No. 1 furnace oil. The coal chemicals, textile and leather chemicals and agricultural chemicals markets were without change.

Except for ten changes in botanicals listed on page 69, price changes during the past week were as follows (the numbers in parentheses after changes indicate the pages on which the market reports will be found:—

Prices Advanced

Copra, $10 per ton (80).
Fuel oil, furnace, group 3, No. 1, ¼c. per gal. (48).
Oil, coconut, crude, N. Y., 1½c. per lb. (80).
Pac. coast, 1c. per lb.
Oleo, ½c. per lb. (80).
Peanut, crude, 1c. per lb. (80).
refd., ¼c. per lb.
Soybean, crude, ¼c. per lb. (80).
ref., ¼c. per lb.

Prices Reduced

Casein, Argentine, 3¼c. per lb. (74).
Citral, 10c. per lb. (71).
Isoniazid, bulk, $2 per kilo (57).
Lead, blue, basic, sulphate, 2c. per lb. (74).
Metal, 1c. per lb. (38).
Monosilicate, 0.96c. per lb. (74).
Red, 95%, 1c. per lb. (74).
97%, 1c. per lb.
98%, 1c. per lb.
White, basic, carbonate, 1.45c. per lb. (74).
Silicate, 8/10c. per lb.
Sulphate, 2c. per lb.
Litharge, 1c. per lb. (74).
Menthol, Brazilian, 15c. per lb. (57).
Molasses, blackstrap, feed grade, New Orleans, ¼c. per gal. (57).
New York, ½c. per gal.
Oil, apricot kernel, 7c. per lb. (71).
Bois de rose, 10c. per lb. (71).
Cardamom, $3 per lb. (71).
Corn, crude, ½c. per lb. (80).
ref., ½c. per lb.
Lemongrass, 10c. per lb. (71).
Orange, sweet, distilled, California, 5c. per lb. (71).
Expressed, California, $1 per lb.
Tung, ¼c. per lb. (80).
Oleo stearine, 1c. to 1½c. per lb. (80).
Orange, mineral, 1c. per lb. (74).
Peanut meal, $3 per ton (80).
Soybean meal, $4 per ton (80).
Tallow, extra, ½c. per lb. (80).
fancy, ½c. per lb.
Wax, carnauba, No. 3, crude, 2c. per lb. (80).
Zinc, oxide, leaded, 35%, 7/10c. per lb. (74).
50%, 1c. per lb.

OPD Price Index

The Oil, Paint and Drug Reporter's relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

October 17, 1952	October 10, 1952	October 19, 1951
109.39	109.28*	116.14

* Revised.

LPG Underground Storage Capacity Expansion Detailed

New underground storage capacity for nearly 5,900,000 barrels of liquefied petroleum gas will be available by the end of 1953 under the storage expansion program approved by the Petroleum Administration for Defense, it was announced by the agency last week. More than 2,000,000 barrels of underground storage capacity have been built in the past two years, it was stated.

A survey by the agency shows that since mid-1950, when underground facilities were first built for LPG storage, twenty-six producing companies and distributors have planned or completed a total of seventy-seven projects with an aggregate capacity of 5,962,500 barrels in twelve states. Facilities with a total capacity of 3,034,000 barrels are scheduled for completion for the end of 1952, and additional projects with a capacity of 742,000 barrels are to be completed by the end of 1953.

Priorities assistance, chiefly for the purchase of oil country tubular goods, has been granted by PAD to twenty-eight projects with a total capacity of 2,935,000 barrels. In addition, PAD has recommended rapid tax amortization certificates for 40 percent of the $7,295,000 cost of thirty projects with an aggregate capacity of 2,830,000 barrels.

Packaging Inst. Opens Annual Forum Today

The fourteenth annual forum of the Packaging Institute, which has as its theme "Packaging in the Advancing Atomic Age," will open this morning at the Commodore hotel, New York, and continue through Wednesday.

After an address of welcome by Robert De S. Couch, president, and the report of the nominating committee, headed by Charles L. Barr, there will be a session devoted to the progress and outlook of the institute. The following will speak:— M. J. Odell, Koehler, Odell and Worden; H. Earl Nack, Sharp & Dome, Inc.; Charles O. Kendell, E. R. Squibb & Sons, Inc., and John A. Warren, American Home Products Corporation. Also during the morning there will be papers presented on "Problems of the Atomic Age," by Paul Colsmann, Brookhaven National Laboratory, and "A Specific Packaging Problem Arising From Nuclear Fission," by Dr. W. A. Schenk, technical superintendent, and C. E. Peterson, of the technical department, of the Riegel Paper Corporation.

Petroleum Packaging

In the afternoon there will be three concurrent sessions. The first, devoted to "Petroleum Packaging," will have A. Douglas Murphy, Esso Standard Oil Company, as chairman. Willard B. Eastman, Continental Can Company, will speak on "Tin Mill Product Qualities Required in Can Manufacturing." William I. Hanrahan, vice-president in charge of sales and George S. Strothoff, general sales staff manager of the United States Steel Products Division of the United States Steel Corporation, will present a paper entitled, "Present Trends in High Speed Drum Manufacture." W. B. Lincoln, jr., Inland Container Corporation, will then speak on "Materials Specifications and Testing of Paper Containers."

The second of the concurrent sessions will be devoted to "Drug and Pharmaceutical Packaging," with Dr. John C. Bird, Lederle Laboratories Division of American

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Consolidated Starts Building Texas Sulphuric Acid Plant

Consolidated Chemical Industries last week broke ground at Baytown, Tex., for the construction of a new sulphuric acid plant. The unit, reportedly designed to combat air pollution in the Baytown area, will use materials obtained from the nearby refinery of Humble Oil & Refining Company. It will use hydrogen sulphide recovered from crude oil at the refinery and also certain acid sludges formerly burned as fuels. The unit is due to start operations in about eight months and the entire project is scheduled for completion by next October.

Sindar Sales Manager

R. E. Vicklund has been named manager of sales and development for Sindar Corporation, New York. Mr. Vicklund joined Sindar in 1950 as a technical representative. Prior to his recent appointment, he served as chief of the fungus control section of the company's engineer research and development laboratories.

Food Machinery Appoints Seaton Senior Vice-Pres.

Food Machinery & Chemical Corporation, New York, has named Dr. Max Y. Seaton senior vice-president and technical coordinator of its chemical divisions, which include Westvaco Chemical Division, Niagara Chemical Division, Ohio-Apex, Inc., and Buffalo Electro-Chemical Company.

Formerly executive vice-president of Westvaco, Dr. Seaton's office will be in the Chrysler Building East, New York, where the newly-created eastern administrative headquarters of all FMC chemical operations are located.

The post of executive vice-president of Westvaco has been discontinued and William B. Thom, president of the division, and William N. Williams, operating vice-president of Westvaco, will assume responsibility for the former activities of this office.

Cowles Elects Clossey

Cowles Chemical Company, Cleveland, Ohio, has elected William M. Clossey secretary and treasurer. Mr. Clossey held a similar post with Broadhead Barrett Company in Cleveland prior to joining Cowles, and before that was a supervising accountant for Ernst & Ernst.

Allied Plans Ohio Fertilizer Unit; Omaha Project Delayed

The nitrogen division of Allied Chemical & Dye Corporation, New York, last week announced plans for the construction of a new fertilizer unit and a delay on a second project. The company intends to build a new $5,000,000 plant for the production of a high analysis complete fertilizer by a new process at South Point, Ohio. Full-scale construction of a plant to produce ammonia and urea fertilizers for the Omaha area at its newly-acquired site at La Platte, Neb., is being held up, the division said, pending approval by the Federal Power Commission of a contract providing for the supply of gas by Northern Natural Gas Company to Allied.

The new Ohio plant, it was said, will utilize a new process in which ground phosphate rock is continuously mixed with nitric acid and a small amount of sulphuric acid. The acids convert the phosphate rock to a form available to growing plants, and the resulting material is then reacted with anhydrous ammonia to neutralize any acids present and to provide more plant food nitrogen in the product. Potash salts are added and the product is granulated to uniformly sized particles which, it is claimed, are free-flowing and are easily handled in fertilizer distributing equipment.

Makeup of New Product

Containing all three essential fertilizer elements, the new product at the South Point unit will have 36 percent plant food, made up of 12 percent nitrogen, 12 percent available phosphoric acid, and 12 percent potash. A contract to construct the plant has been let to John J. Harte Company, Atlanta, Ga., which plans to start construction this fall. The project is scheduled for completion by next summer, depending upon the availability of construction materials. The nitrogen required as raw material in the new facilities will be available from the present nitrogen division plant at South Point which now produces ammonia, nitrogen urea, methanol and formaldehyde for industrial and agricultural uses.

As for its Nebraskan project, the division reported that preliminary engineer-

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Amsco Now Offering New Petroleum Solvent

The introduction of a new petroleum solvent, "Amsco Naphthol Spirits," has been announced by Edward M. Toby, jr., president of American Mineral Spirits Company, Chicago.

The new product is claimed a very good-odored solvent, and because of an unusually low 335 degree Fahrenheit dry point is said to have extremely fast drying characteristics. Another feature of the product is the high safety factor, as indicated by its Tag Closed Cup flash point of 102 degrees Fahrenheit, Amsco stated. The company is offering the solvent in tankcar and drum quantities on a national basis and for tankwagon delivery in key localities.

Spencer Development Aid

Ervin W. Segebrecht has been named assistant director of sales development for the Spencer Chemical Company, Kansas City, Mo. For the immediate future Mr. Segebrecht will also serve as manager of the Spencer market research section. He comes to Spencer from Armour & Co., Chicago, where he served for fourteen years in various research and marketing posts, most recently as manager of market development in Armour's chemical division.

Sorbitol Gains Told At Atlas Symposium

A progress report on sorbitol was the subject of a non-technical symposium October 15 at the Waldorf-Astoria hotel, New York, held under the sponsorship of the Atlas Powder Company, Wilmington, Del. The meeting, intended to assist in an up-to-date evaluation of the various polyols, was told of sorbitol's uses in six major consuming industries. About 600 were in attendance.

Floyd Hosking, executive vice-president of the Corn Industries Research Foundation, keynoted the symposium with a discussion of "Corn as a Chemical Raw Material." After making reference to the use of corncobs in the production of furfural, Mr. Hosking went on to stress the importance of the corn kernel as a chemical raw material.

He noted that wet milling corn yields starch as its main product, with feed and oil as by-products. He outlined the derivatives of cornstarch, listing oxalic acid, erythrose, starch nitrates, starch phosphate, acetates of starch and its fractions, polymerized starch methacrylate, caroxymethyl starch, hydroxyethyl starch and allyl ethers of starch among others. Dextrose, produced by the hydrolysis of starch, he said, yields gluconic, glucuronic, arabbonic and saccharic acids along with such other products as sorbitol, mannitol and other hexitoll derivatives.

Quality Control

Charles W. Bowden, jr., of the Minneapolis-Honeywell Regulator Company, discussing "Quality Control of a Volume Chemical," pointed out that a batch process method is too slow to keep pace with the sorbitol market. The continuous process reaction time, he said, is short and needs constant control, which is made possible, he added, with new automatic control instruments.

Leading off a panel on uses by the six major consuming industries, Justin J. Alikonis, president of the American Association of Candy Technologists, talked on "Sorbitol in Confections." Military specifications are difficult to meet, he said, but sorbitol has done a good job for the food and candy industry. He cited its use as a humectant in keeping candy bars from drying, and pointed out that sorbitol improves the texture of candy, reduces its tendency to crystallize and, in general, increases its shelf-life.

Dr. Donald H. Powers, of Warner-Hudnut, Inc., speaking for the cosmetics industry, stated that sorbitol has wide use as a humectant. "Some of the most effective hand creams and body creams on the market," he pointed out, "owe their consistency, smoothness and moisture retention to their sorbitol content and their tremendous sales and continued popularity is clear evidence of their performance."

Samuel Creselius, of the Naval Research Laboratory, gave a rundown of the five polyhydric alcohols in most common use

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National Chlorophyll Starts Construction on New Plant

National Chlorophyll & Chemical Company began construction at Lamar, Col., on its $1,000,000 chlorophyll extraction plant. Speaking at ground-breaking ceremonies, J. C. Hearn, president of National Chlorophyll, predicted that the new unit, which will employ a continuous extraction process, will have an annual capacity in excess of 100,000 pounds. Last year the entire industry in the United States produced approximately 60,000 pounds of chlorophyll, and the 1952 production is estimated at about 95,000 pounds.

Orders for new machinery were placed some time ago, and National Chlorophyll expects that this equipment will be completed in time to insure full operation by next April. The company at present is operating a pilot plant and two small commercial units for the extraction of chlorophyll. These were originally built and veloped by National Alfalfa Dehydrating & Milling Company, parent company of National Chlorophyll.

Schenley Labs Executive Vice-Presidency to Miller

Election of Samuel Miller as executive vice-president of Schenley Laboratories, Inc., Lawrenceburg, Ind., has been announced by Arthur C. Emelin, president. Mr. Miller joined the pharmaceutical firm in 1946 as advertising and promotion manager. Last year he was elected a vice-president and named director of commercial development. In his new capacity he will continue to supervise commercial development and will coordinate the work of all other departments of the company.

Washington Talks It Over

By Ralph L. Cherry

The chemical industry's program of expanding production to meet the requirements of partial mobilization and the essential civilian activities is nearing an end. Certificates of necessity permitting rapid amortization of the cost of new facilities and plants will continue to dribble from the Defense Production Administration as they have for the past few weeks, but by and large, the industry is now in the phase of transferring its expansion programs from the drawing boards to actual operations.

During the rebuilding of defense since the Korean outbreak, the National Production Authority established increased production goals for fifty-six chemicals essential for defense or civilian operations and of this number tax certificates have been issued in sufficient numbers, plus unassisted expansions by industry, to reach thirty-seven of these goals. The nineteen goals yet to be met are in various stages of fulfillment, but all are expected to be achieved. The fifty-six expansion programs will raise the industry's productive capacity for these products 70 percent over the 1951 level.

As of the first of this month, the chemical division of NPA had acted on a net total of 1,231 applications for rapid tax amortization. Of that number 789 had been certified by DPA, 346 were denied and ninety-six applications were still pending. The applications received covered facilities with a value of over $3,000,000,000. The 789 applications certified were for facilities valued at $2,362,000,000.

The expansion programs will provide unprecedented increases in the production of such basic raw materials as chlorine and nitrogen with their manifold uses in hundreds of chemical processes, and in styrene, which with butadiene is a fundamental starting material for synthetic rubber. Notable increases also will be made in the production of other significantly important chemical raw materials such as sulphur, sulphuric acid, such coaltar and petrochemical products as phenol, naphthalene, phthalic anhydride, formaldehyde, ethylene oxide, ethyleneglycol, trichloroethylene, carbon tetrachloride, methylene chloride, and agricultural chemicals used as fertilizers and insecticides.

The chemical industry is an ever-changing one so far as individual chemicals are concerned. New uses and new applications are being found every day for chemicals. Because of changing demand, NPA is maintaining a continuing review of supply and requirements for important products but the work of planning major expansion programs is about over.

Water Supplies Data

The Geological Survey of the Department of the Interior has begun the issuance of a series of reports on public water supplies of considerable importance to industries with expansion programs in the making. The reports are a revision of the "water-supply paper 658" on the industrial utility of public water supplies of 1932, and are concerned primarily with the quality of water furnished to the larger cities of each state. The reports contain data on water supplies of more than 1,200 large cities.

Industrial use of water from private sources was estimated at more than 75,000,000,000 gallons per day in 1950.

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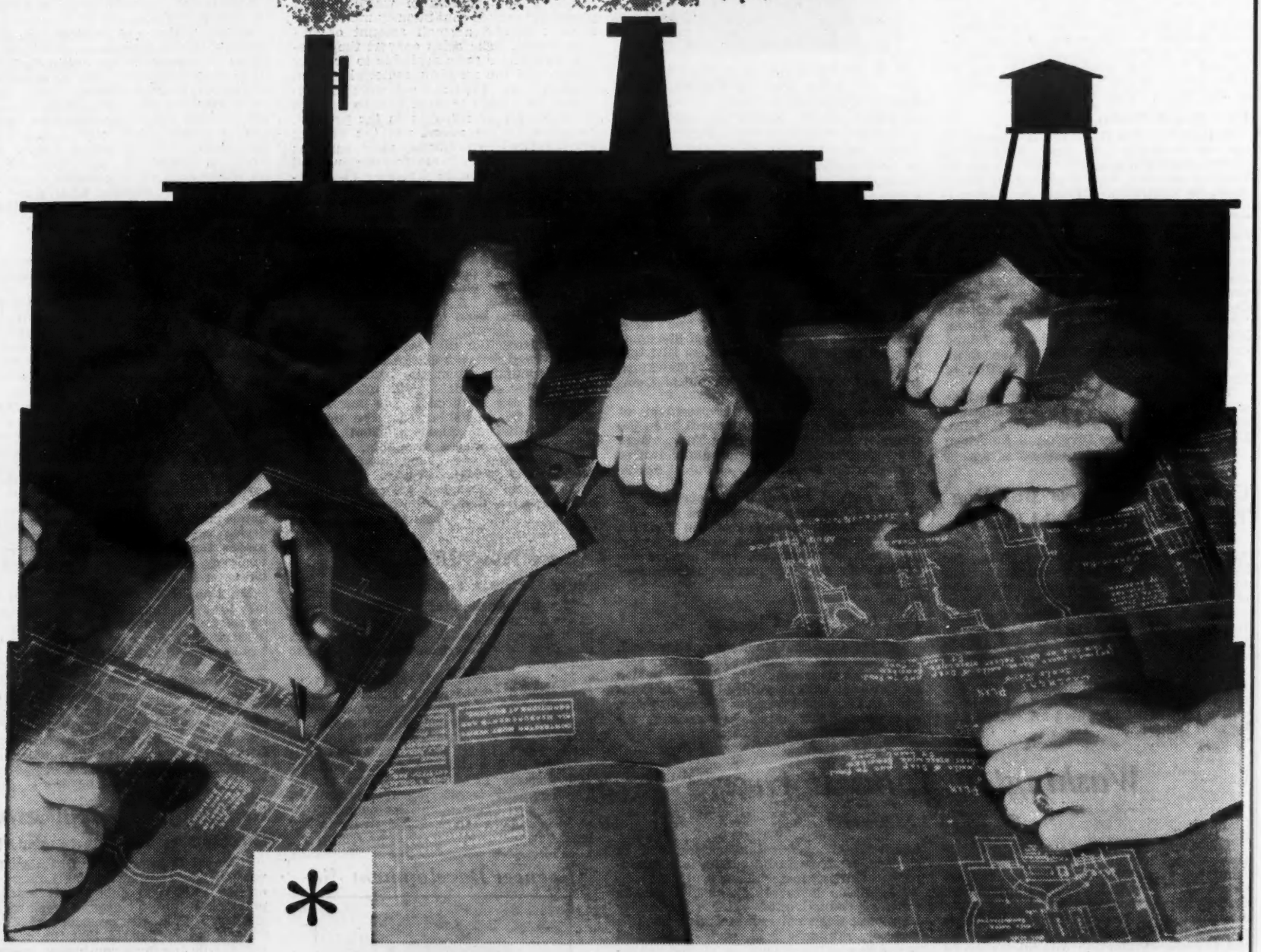
THE BEST LAID PLANS* start at N.Y.Q.



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Association Meetings

American Association for the Advancement of Science, annual meeting, St. Louis, Mo., December 26-31.

American Association of Textile Chemists and Colorists, annual meeting, Statler hotel, Boston, Mass., November 6-8.

American Association of Textile Technologists, annual symposium, Statler hotel, New York, February 3, 1953.

American Council of Commercial Laboratories, annual meeting, Schenley hotel, Pittsburgh, Pa., November 12-14.

American Drug Manufacturers Association, accounting section, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 27-29.

American Institute of Chemical Engineers, annual meeting, Cleveland and Carter hotels, Cleveland, Ohio, December 7-10.

American Oil Chemists Society, fall meeting, Netherland-Plaza hotel, Cincinnati, Ohio, October 20-22.

American Petroleum Institute, annual meeting, Conrad Hilton hotel and Palmer House, Chicago, November 10-13.

American Pharmaceutical Manufacturers Association, midyear meeting, Waldorf-Astoria hotel, New York, December 8-10.

American Standards Association, annual meeting Waldorf-Astoria hotel, New York, November 25.

Association of Consulting Chemists and Chemical Engineers, annual symposium, Belmont Plaza hotel, New York, October 28.

Boston Conference on Distribution, Statler hotel, Boston, October 20-21.

Chemical Specialties Manufacturers Association, annual meeting, New Yorker hotel, New York, December 7-9.

Combined Contact Committee of ADMA and APMA, Washington hotel, Washington, D. C., November 18-19.

Electrochemical Society, annual meeting, Sheraton-Mt. Royal hotel, Montreal, Canada, October 26-30.

Federation of Paint and Varnish Production Clubs, annual meeting, Palmer House, Chicago, November 20-22.

Flax Institute of the United States, annual meeting, Minneapolis, Minn., November 6-7.

Manufacturing Chemists Association, semi-annual meeting and winter conference, Statler hotel, New York, November 25.

National Agricultural Chemicals Association, spring meeting, Jung hotel, New Orleans, La., March 11-13, 1953.

National Association of Retail Druggists, annual convention, Henry W. Kiel Municipal Auditorium, St. Louis, Mo., October 19-23.

National Fertilizer Association, fall meeting, Roney Plaza hotel, Miami Beach, Fla., November 19-21.

National Foreign Trade Council, Waldorf-Astoria hotel, New York, November 11-19.

National Paint, Varnish and Lacquer Association, annual convention, Palmer House, Chicago, November 17-19.

National Pest Control Association, annual meeting, Rice hotel, Houston, Tex., October 20-22.

Parenteral Drug Association, annual meeting, Barbizon-Plaza hotel, New York, October 30-November 1.

Plant Maintenance Conference, in conjunction with Plant Maintenance Show, Public Auditorium, Cleveland, Ohio, January 19-22, 1953.

Salesmen's Association of the American Chemical Industry, chemical sales clinic, Commodore hotel, October 28; Christmas party, Waldorf-Astoria hotel, New York, December 10.

Society of Chemical Industry (American Section), award meeting, Waldorf-Astoria hotel, New York, October 31.

Society of Cosmetic Chemists, semi-annual meeting, Biltmore hotel, New York, December 11.

Society of Plastics Engineers, annual technical conference, Statler hotel, Boston, January 21-23, 1953.

Synthetic Organic Chemical Manufacturers Association, monthly meeting, Commodore hotel, New York, November 12.

Nat'l Foreign Trade Council Maps 39th Conv. Agenda

The National Foreign Trade Council has drawn up plans for its thirty-ninth convention, to be held November 17 to 19 at the Waldorf-Astoria hotel, New York. A number of chemical industry men will participate in the meeting. They include:—

A. B. Sparboe, vice-president, Pillsbury Mills, Inc., Minneapolis, Minn.; Philip D. Reed, board chairman, General Electric Company, New York; L. C. Boos, vice-president and general manager, international division, United States Rubber Company, New York; William B. Wimpenney, director for foreign operations, Sharp & Dohme, Inc., Philadelphia; G. C. Whipple, manager of the foreign department, Quaker Oats Company, Chicago, and G. F. James, director, Standard-Vacuum Oil Company, New York, and chairman of the NFTC tax committee.

SPI Meeting January 21-23

The ninth annual technical conference of the Society of Plastics Engineers will be held January 21 to 23, 1953, at the Statler hotel, Boston. The theme of the conference will be "Plastics—Engineered for Tomorrow." The society anticipates an attendance of plastics engineers from all parts of the United States as well as from Canada, South America and Europe.

API Outlines Agenda For Chicago Meeting

The American Petroleum Institute will hold its thirty-second annual meeting at the Conrad Hilton hotel and the Palmer House, Chicago, November 10 to 13.

The opening day will feature group sessions on fundamental research, public relations, transportation, marketing, refining and a symposium on evaporation losses. Speakers will include:—Dr. Robert E. Wilson, board chairman of the Standard Oil Company (Indiana), Chicago; H. S. M. Burns, president of Shell Oil Company, New York; Vice-Admiral W. M. Callaghan, commander of the Military Sea Transportation Service, Washington, D. C.; B. Brewster Jennings, president of Socony-Vacuum Oil Company, New York; Ben Moreel, chairman of the board of Jones & Laughlin Steel Company, Pittsburgh, Pa.; Otis H. Ellis, general counsel of the National Oil Jobbers Council, Washington, D. C., and Dr. Courtney C. Brown, a director of Esso Standard Oil Company, New York.

On November 11 there will be sessions on finance and accounting, marketing, transportation, production and the American Petroleum Industries Committee. Speakers will include:—A. A. Stambaugh, board chairman of the Standard Oil Company (Ohio), Cleveland, Ohio; H. S. M. Burns; James J. Cosgrove, board chairman for Continental Oil Company, New York, and Dr. Marcus Nadler, professor of finance at New York University.

The program on November 12 will feature a general session in the morning and in the afternoon production and lubrication sessions. Preseitation of the API system of motor oil clissifications will be made by G. A. Round of the Socony-Vacuum Oil Company, New York. Other speakers will include:—H. G. Moock, lecturer and sales counsellor, of Detroit; W. B. Perriguey, of Esso Standard Oil Company, New York, and Donald C. O'Hara, of the National Petroleum Association, Washington, D. C. A general session is scheduled for the closing day.

AEC Report Seen Spurring Atomic Industrial Progress

Major impetus will be given to industrial development of atomic power when the Atomic Energy Commission is able to report its studies and recommendations to the President as provided in the atomic energy act, Edwin J. Putzell, jr., secretary of Monsanto Chemical Company, St. Louis, Mo., said last week.

Addressing the National Industrial Conference Board in New York, Mr. Putzell pointed out that congress anticipated the advent of industrial participation in peacetime development of atomic energy and created a means for permitting work in privately-owned plants. Prior to granting licenses to industry, Mr. Putzell said, the AEC is required by the atomic energy act of 1946 to report its findings and recommendations to the President for transmittal to congress.

"Have we not moved much closer to the time for the commission to make its study and to submit its report to the President?" he said. "By so stimulating the industrial development of atomic energy, the commission will further harness in the national interest our vigorous competitive system with all its power to produce the most goods with the maximum efficiency."

Textile Technologists Ass'n To Hold Symposium Feb. 3

The American Association of Textile Technologists will hold its second annual symposium February 3, 1953, at the Statler hotel, New York. Slated are talks at the morning session, a luncheon and speaker from the textile industry to be announced later, and a question and answer discussion from the floor in the afternoon. For the first time at this event, exhibits of fiber and laboratory equipment producers will be shown in conjunction with the meeting. Heading up the planning committee for the event is Leonard S. Little, consultant.

FWDA Elects Blackwood

The Federal Wholesale Druggists Association has elected R. T. Blackwood, jr., of the Philadelphia Wholesale Drug Company, president of the organization. R. Cary, of Drug Trading Company, Ltd., the former president, has become chairman of the executive committee. Other officers include:— Vice-president, J. Addison Mize, Snowden-Mize Drug Company; treasurer, George A. Rabb, Providence Wholesale & Drug Company, and executive secretary, Ray C. Schlotterer.

Fred Haggerson, Union Carbide Chairman, Dies

Fred H. Haggerson, chairman of the board of Union Carbide & Carbon Corporation, New York, died October 14 in that city. He was sixty-eight years old.

Mr. Haggerson, who had been with Union Carbide for more than thirty-three years, became chairman of the board in 1951. He had been made vice-president of the corporation in 1938, a director in

Fred H. Haggerson

1941 and president and a member of the executive committee in 1944. In 1949 he won the Medal for the Advancement of Research, presented by the American Society of Metals for his leadership in the metals field.

Starting his career as a lawyer, Mr. Haggerson practiced in Menominee, Mich., for ten years, becoming district attorney for Menominee County. In 1917 he was appointed to the bureau of investigation of the Department of Justice in Cleveland, Ohio, and was soon transferred to New York, where he became division superintendent.

In 1919, Mr. Haggerson became associated with the law department of Union Carbide and his work became more and more of an executive nature as he progressed in the organization. He promoted a liberal policy of research and expansion

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Drum, Barrel Reconditioners Seen Due for Output Boost

Steel drum and wooden barrel reconditioners will in all likelihood show at least a 20 percent increase in business in 1953 as compared with 1952, and surpass the peak production of the war years, Morris Hershson, president of the National Barrel and Drum Association, stated last week at the annual convention held at the Statler hotel, New York.

Mr. Hershon based his optimistic view on several important factors. "The barrel and drum reconditioning industry, has expanded considerably," he said. "During the past few years, reconditioners have expended millions of dollars to increase facilities and install the latest type of equipment. This insures not only prompter service, but quality products."

Mr. Hershon also emphasized that properly reconditioned steel drums and barrels result in savings of about 25 percent of the price of new containers, yet render the same service because of latest reconditioning technics.

Vinyl Film Trade Meeting On Proposed Standard Set

A proposed commercial standard for vinyl film, submitted by the Society of the Plastics Industry, will be discussed at a meeting of the vinyl plastic film industry to be held November 18 at the National Bureau of Standards, Washington, D. C., the Department of Commerce, announced last week.

The proposed standard covers methods of test and requirements of general purpose vinyl plastic film to insure satisfactory products for consumer use. The requirements and methods of test specify thickness tolerances, yield per roll, width tolerances, shrinkage at elevated temperatures, contamination, appearance, cracking, tensile properties, tear resistance, volatility of plasticizer, water extraction, low temperature impact and flammability. Suggested forms for declaring compliance with the standard and an identifying hallmark are included.

All individuals and organizations interested in the production, distribution, use or testing of vinyl plastic film are invited to the meeting which starts at 10 a.m.

Southeastern Chemists To Convene Thursday

More than 300 chemists and chemical engineers will convene at Auburn, Ala., from Thursday through Saturday for the 1952 southeastern regional meeting of the American Chemical Society, sponsored by the society's Auburn section. The meeting will be held on the Alabama Polytechnic Institute campus.

The 1952 Southern Chemist Award will be presented at a general meeting on Friday evening. Dr. David T. Mowry, Monsanto Chemical Company, St. Louis, Mo., will discuss the soil conditioner "Krilium" at the opening session Thursday morning.

Technical sessions will begin on Thursday afternoon, with special symposia on fiber chemistry and the dyeing of fibers, industrial instrumentation, and soil chemistry and fertilizer, in addition to reports on advances in analytical and micro chemistry. "The Effect of Microorganisms on the Quality of Cotton Fabric" is the title of a paper to be presented by Dr. Edward Abrams, Southern Regional Institute, Birmingham, Ala. Other subjects to be discussed include DDT assays on commercial products, new applications of industrial instruments, and studies of soil elements.

Scientific Crime Detection

Scientific crime detection will be described in a special program conducted by personnel of the Alabama State Toxicological Laboratory on Thursday evening. Chemicals that prevent mildew will be described by Professor Frances C. Brown, Dr. Charles K. Bradsher and Elise N. Lawton, Duke University, at the Friday morning technical session. John R. Taylor, jr., of the American Plant Food Council, will discuss "Trends and Critical Status of Fertilizers." Reports also are scheduled on wood as a source of chemicals, plant growth regulators, and recent developments in instrumentation.

Dr. B. F. Bottenfield of the Oak Ridge (Tenn.) National Laboratory will survey "Chemical Engineering in the Atomic Energy Fields" at the Friday afternoon session. This session also will include a symposium on the chemical aspects of metallurgy. Other speakers on the program include D. E. Marnon, General Dyestuff Corporation, New York; Dr. William W. Austin, jr., North Carolina State College; Walter E. Brown, Tennessee Valley Authority's division of chemical development, Wilson Dam, Ala., and Dr. S. S. Block, University of Florida.

Radioactive Tracer Studies

Radioactive tracer studies for determining the calcium metabolism in dairy cattle will be described by W. J. Visek, R. A. Monroe, Prof. Eric W. Swanson and Dr. C. I. Comar, University of Tennessee-Atomic Energy Commission agricultural research program at the closing session Saturday morning. Other papers will be presented in the fields of biochemistry and nutrition, organic chemistry and physical and inorganic chemistry.

Cosmetic Chemists Outline Plans for Dec. 11 Meeting

The Society of Cosmetic Chemists has drawn up plans for its semi-annual meeting, to be held December 11 at the Biltmore hotel, New York. James H. Baker, program chairman, has announced the presentation of the following papers:—

"Some Properties of Zirconium Compounds Significant to the Cosmetic Technologist," W. B. Blumenthal, Titanium Alloy Manufacturing Division, National Lead Company.

"Infra-red Spectrophotometry of Essential Oils," A. Presnell, Andrew Jergens Company.

"Procedures for Testing the Efficiency of Deodorants," Edward Sagarin.

"Evaluation of Some Organic Sulphur Compounds in Cold Waves," Prof. H. G. DeKay, Purdue University.

"The Value of Chlorophyll Derivatives as Local Deodorants," Louis C. Barail.

"Further Studies on the Swelling of Hair," Dr. H. Powers and G. Barnett, Warner-Hudnut, Inc.

"A Practical Evaluation of Chlorophyll in Controlling Breath Odors," Joseph W. E. Harrisson, K. S. Konigsbacher, G. J. Cox, J. W. Hein, William H. Danker, S. Wah Leung and R. Heggie.

"The Incidence and Nature of Allergic Skin Reactions of Lanolin," Thelma Warshaw, Marion Sulzberger and Franz Herrmann, New York University Hospital.

AAAS Convenes Dec. 26

The American Association for the Advancement of Science will hold its 119th meeting December 26 to 31 in St. Louis, Mo.

New evidence on Vitamin B_{12} for growth failure

...test children also show less fatigue, improved scholastic aptitude

Further evidence of the ability of vitamin B_{12} to speed growth in children suffering from simple growth failure has been reported by Wetzel and his associates in Cleveland.*

This study now in progress for over three years involves some 20,000 observations in more than 300 children, in their usual home and school surroundings.

The new evidence is creating widespread interest in vitamin B_{12} as a dietary supplement. This, in turn, means a larger market for preparations containing vitamin B_{12}. Merck Vitamin B_{12} products are preferred ingredients for both oral and parenteral formulations.

* * *

Reprints of this new study by Wetzel, *et al.*, which was published in the initial issue of the new *Journal of Clinical Nutrition*, are available from Merck & Co., Inc. The authors' conclusions, in part, are as follows:

"All of the foregoing evidence, therefore, supports the conclusion that vitamin B_{12} does exert a 'growth-promoting effect' *when given as a dietary supplement to children in growth failure*—and this evidence is exceptionally strong . . . The general benefits derived from the present study of vitamin B_{12} dietary supplements were felt well beyond the point at which individual children developed recovery responses . . . teachers in the classrooms became aware that at least some of the pupils were improving in behavior, attitude and scholastic work—or that they were showing less strain and fatigue, or, on the other hand, greater interest and attention, and hence better all-around progress than before. Voluntary expressions of similar import were offered by parents."

*Wetzel, N. C., Hopwood, H. H., Kuechle, M. E., and Grueninger, R. M.: *Journal of Clinical Nutrition* 1:17, September-October, 1952.

Vitamin B_{12} Merck

CRYSTALLINE VITAMIN B_{12} U. S. P.

TRITURATIONS OF CRYSTALLINE VITAMIN B_{12}

VITAMIN B_{12} SOLIDS

Research and Production for the Nation's Health

MERCK & CO., INC.

Manufacturing Chemists

RAHWAY, NEW JERSEY

In Canada: MERCK & CO. Limited—Montreal

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Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, October 17 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

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A

Acacia (see Gum arabic).

Acenaphthene below 92.5 C., m.p., dms. works lb. .40 - —
over 92.5 C., m.p., bbls., dms., works lb. .41 - .50

Acetaldehyde, 99%, dms., c.l., frt. equald lb. .1250- .1435
l.c.l., frt. equald lb. .1350- .1535
tanks, frt. equald lb. .1050- .1300

Acetaldol (see Aldol)

Acetanilide, tech., bbls., c.l., dlvd. lb. .26½- —
l.c.l., ton lots lb. .27½- —
smaller lots lb. .30½- —
USP, bbls., 2,000-lb. lots lb. .61 —
smaller lots lb. .62 .67

Acetic, anhydride, dms., c.l., dlvd. E lb. .16 - —
l.c.l. frt alld E lb. .17½- —
tanks, frt. alld. E lb. .14½- —

Acetoacetanilide, fib. dms., c.l. dlvd. lb. .73 - —
l.c.l., dlvd lb. .74 - —

Acetoacetorthochloroanilide, fib. dms., c.l., dlvd lb. 1.14 - 1.22
l.c.l., dlvd lb. 1.15 1.23

Acetoacetorthotoluidide, fib. dms., c.l., dlvd lb. .78 - —
l.c.l., dlvd lb. .79 - —

Acetone, CP dms., c.l., dlvd lb. .10¼- .11¼
l.c.l., dlvd lb. .11 - .12½
tanks, dlvd lb. .08½- .10

Methyl (see MO)

Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —

Acetophenetidin USP, bbls., works, frt. equald lb. 1.15 1.38

Acetophenone, cns. dms lb. 1.35 1.85
tech., dms., l.c.l., works lb. 75 —

Acetyl (N) para-aminophenol, dms., frt. adjusted lb. 1.50 1.60

Acetyltributyl citrate, tech., dms., c.l lb. .37½- —
l.c.l lb. .38½- —
tanks lb. .36 - —

Acetyltriethyl citrate, tech., dms., c.l lb. .37½- —
l.c.l lb. .38½- —
tanks lb. .36 - —

Acid, abietic, com'l, dms., c.l., works lb. .12 - —
l.c.l., works lb. .1390- —
cryst., dms., c.l., works lb. .06½- —
l.c.l., works lb. .07 - .07½

Acetic, com'l or redist., 28%, bbls. 100 lbs. 5.50 - —
56%, bbls 100 lbs. 9.65 - —
70%, bbls 100 lbs. 11.70 - —
80%, bbls 100 lbs. 12.45 - —
glacial, synthetic, CP, dms., works 100 lbs. 15.00 -16.00
cbys., inclusive, works 100 lbs. 24.00 -25.00
tech., dms., c.l., works 100 lbs. 10.50 -12.50
l.c.l., works 100 lbs. 11.00 -13.50
tanks, works 100 lbs. 9.00 -11.50
USP, dms. works 100 lbs. 13.50 -14.50

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP special, bbls., makers, primary distrib., point of ship't, 1000-lb. lots lb. .60 - —
standard, fine cryst., gran., (30-40 mesh) powd. (80 mesh), bbls same basis, lb. .53 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., works lb. .30½- —

Aminoacetic, NF, bbls., frt. adjusted lb 1.50 1.75

Anthranilic, resub., bbls lb. 2.10 - —
tech., bbls., frt. equald lb. 1.10 - —

Arsenous, tech. (see Arsenic, white).
USP (see Arsenic trioxide).

Ascorbic, USP dms. 25-50 kilo lots kilo. 24.50 - —
10-kilo lots kilo. 24.85 - —
5-kilo lots kilo. 25.25 - —
bots., 1-kilo lots kilo. 25.50 - —
500-gram lots kilo. 26.00 - —

Battery, cbys., c.l., works, E. 100 lbs 2.40 —
l.c.l., works, E 100 lbs. 2.80 3.20

Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .425 .450
USP, bbls. dms. 100-lb. lots or more lb. .525 .540

Betahydroxynaphthoic (see Acid, betaoxynaphthoic).

Betaoxynaphthoic, bbls., works lb. 1.14 - —

Boric, tech. 99½% cryst., bgs., c.l., works ton. 120 75 - —
ton lots, ex whse., N. Y. or Chi ton. 166.50 - —
less ton lots same basis, ton. 171.50 - —
bbls., c.l., works ton. 143 25 - —
ton lots, ex whse., N. Y. or Chi ton. 191.00 - —
less ton lots same basis, ton. 196.00 - —
bulk, c.l., works ton. 116.75 - —
gran., bgs., c.l. works ton. 95 75 - —
ton lots, ex whse., N. Y. or Chi ton. 141.50 - —
less ton lots same basis, ton. 146.50 - —
bbls., c.l., works ton. 120 25 - —
ton lots, ex whse., N. Y. or Chi ton. 166.00 - —
less ton lots same basis, ton. 171.00 - —
bulk, c.l., works ton. 91.75 - —
powd., bgs., c.l. works ton. 100.75 - —
ton lots, ex whse., N. Y. or Chi ton. 146.50 - —
less ton lots same basis, ton. 151.50 - —
bbls., c.l., works ton. 125.25 - —
ton lots, ex whse., N. Y. or Chi ton. 171.00 - —

Acid, boric, powd., bbls., less ton lots, same basis ton. 176.00 - —
bulk, c.l. works ton. 96.75 - —
USP 525 per ton higher.

Broenner's, bbls lb. 1.47 - —

Butyric, 99%, dms., c.l., works, lb. .34 - —
l.c.l., works lb. .34½- —
tankcars, works lb. .32½- —

Cacodylic, bots lb 10.50 13.00

Camphoric, natural, dms lb. 4.00 - 4.75
synth., dms lb 4.00 4.75

Capric, 90%, dms lb. .29¼- .30½

Caprylic, 90%, dms lb. .29¼- .30½

Cassello, dms frt alld lb 1.44 —

Castor oil, split, dms lb. .33¼- .33¾

Chicago, bbls. frt alld lb 3.21 —

Chlorosulphonic, dms., c.l., frt. equald lb. .039 —
l.c.l., frt equald lb. .044 .059
tanks, frt equald lb. .034 —

Chromic, 99½-99¾%, dms., c.l., works lb. .27 - .27½
l.c.l., works lb. .27½- .28½
NF (see Chromium trioxide)

Cinnamic, refd. bots lb. 3.50 3.50

Citric, anhyd., gran., fine gran., dms., c.l lb. .26½- —
10,000-lb. lots, 1 ship't. lb. .27 - —
smaller lots lb. .27½- —
kgs. lb. .28½- —

USP, gran., fine gran., dms., c.l lb. .24½- —
10,000-lb. lots, 1 ship't. lb. .25 - —
smaller lots lb. .25½- —
kgs. lb. .26½- —

Anhydrous and USP powdered citric, ½c. per lb. higher.

Cleve's, mixed bls lb. .79 - —
Coconut oil, dist., dms lb. .19 - .20¼
double dist., dms lb. .20½- .21¼
Cottonseed oil, dist., dms lb. .11¼- .12½
double dist., dms lb. .11¾- .13

Cresylic, coaltar, dom., 50% above 210°C. non-ret. dms., c.l., frt. equald gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —
ret. dms. c.l. same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —
tanks, same basis gal. .95 - —
207° to 210° C., dms., c.l., same basis gal. 1.16 - —
l.c.l., same basis gal. 1.19 - —
tanks, same basis gal. 1.05 - —
204° to 207°C. non-ret. dms., c.l., same basis gal. 1.21 - —
l.c.l., same basis gal. 1.24 - —
ret. dms. c.l. same basis, gal. 1.21 - —
l.c.l., same basis gal. 1.24 - —
tanks, same basis gal. 1.10 - —

Acid, cresylic, coaltar, imp., 75% at 215°C. or over, dms., ex whse. gal. .85 - 1.00
petroleum, dom. 195° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .71 —
l.c.l., same basis gal. .73 .75
tanks, same basis gal. .58 —
200° C to 222° C, tanks, Wilmington, Cal gal. .58 .63
211° C to 236° C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .63 —
l.c.l., same basis gal. .65 .67
tanks, same basis gal. .50 —
220° C to 242° C, tanks, Wilmington, Cal gal. .50 .53
245° C to 298° C, tanks, Wilmington Cal gal. .46 —

Crotonic, fib. dms., works lb. .45 - —

Cyanoacetic, tech., bbls lb. .90 1.25

Desoxycholic, bots lb. 22.00 Nom.

Dichlorophenoxyacetic (see under "D" 2,4-D).

Diethylbarbituric (see Barbital)

Diglycolic, bgs., works lb. .14 - —

Ethylhexoic, dms. c.l., works lb .35 —
l.c.l. works lb .35½ —
tanks, works lb .33½ —

F, crude, paste, bbls., works lb. 1.67 - —

Folic, bots, fib cns, kilo or more gram 1.60 —

Formic, 85% cbys. c.l. works lb 142 .17
l.c.l., works lb. .14½- .22
90%, cbys., c.l., works lb. .1475 .1750
l.c.l., works lb. .15 - .23½

Fumaric, tech. bbls. dms lb .37 .38

Gallic, NF VII, bbls., 1,000-lb. lots, lb 1.80 —
smaller lots lb 1.82 2.00
technical, bbls., 1,000-lb lots lb. 1.58 —
smaller lots lb. 1.69 1.78

Gamma, dry, ground, bbls., frt, alld lb 1.50 - —
paste, bbls., frt. alld lb 1.45 - —

Gentisic, 100-lb fib dms lb 8.50 - —

Gluconic, tech., 50% bots lb .23½ .31¼
dms lb. .14½- —
cbys. lb. .17½- —

Glutamic 99½% laevo, fib. dms., 100-lb lots, works lb 2.45 2.53
25-lb. lots, works lb. 2.60 2.68

Glycerophosphoric, 35%, dms., works lb 2.25 2.35

Glycolic (see Acid hydroxyacetic).

H, basis 100%, bbls., works lb. .82 - —

Hydriodic, 1.50 s.g., cbys lb 2.67 - —
1.70 s.g., cbys lb 2.96 - —

Hydrobromic, medicinal, 48%, cbys., dlvd E lb .37 - .43

Hydrochloric (see Acid, muriatic).

Acid, hydrocyanic, cyls., works lb. 1.15 - —
dilute, NF, 2%, 5-lb. bots lb, .40 - —

Hydrofluoric, anhyd., cyls., works, lb. .24 - .25
tanks, works lb. .18 - —
70%, steel dms., works lb. .1535- .1958

Hydrofluosilicic, 30-35%, bbls., works lb. .07 - —

Hydroxyacetic, tech. 70%, bbls., non-return., Phila., basis 100% lb. .12 - —
tanks Belle W Va., basis 100% lb. .085 —

Hypophosphorous, purif., 50%, cbys lb. 1.30 - 1.32
USP, cbys lb 88 —

Isonicotinic, 100 lb. fib. dms. works lb. 10.00 —

J, bbls., works, basis 100% lb. 2.50 2.85

Koch, bbls. frt. alld lb 64 .70

L, bbls frt alld lb 1.25 —

Lactic, edible, 50% bbls., 20 or more lb .17 .20
smaller lots lb. .17½ .21
80%, bbls., 5 or more lb. .30 - .3640
less than 5 bbls lb. .305 .3690
plastic grade, 50% bbls. 20 or more works lb. 21¾ —
1 to 19 lb. 22¼ .22¾
80% bbls., 5 or more lb. .3815- —
tech., 22%, bbls. c.l., works, 100 lbs 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., works 100 lbs. 7.20 -12.20
44%, bbls., c.l., works 100 lbs. 11.45 -11.95
l.c.l., works 100 lbs. 11.85 -12.50
NF, 85%, cbys lb. .85 - .88

Laurent's, bbls lb 60 .67

Lauric, 90%, dms lb. .28¾- .30
60%, dms lb. .19¾- .21

Linseed oil, dist., dms lb. .2145- .2196
water-white, dms lb. .2415- .2496

Maleic, cryst., powd., dms. lb. .37 - .38

Malic, tech., dms lb. .50 - —

Mandelic, NF, dms., 1,000-lb. lots, lb 2.35 —
smaller lots lb. 2.40 2.50

Metanilic, dms., works lb. .57 - .75

Methacrylic, dms., c.l. and truckloads, works lb. .76 - —
less than truckload works lb .76½- .80

Molybdic, dms., 85-92% works lb. 1.40 1.55

Monochloroacetic, purified, flake, 99%, dms lb. .23½- .25½
tech., flake, 96-97%, dms lb. .20 - .22

Muriatic, 18° cbys., c.l. works, 100 lbs. 2.45 2.80
l.c.l., dlvd. Metropolitan area 100 lbs. 3.50 4.30
tanks, works ton. 25.00 -29.00
20°, cbys., c.l., works 100 lbs. 2.70 3.05
l.c.l., dlvd. Metropolitan area 100 lbs. 3.50 4.30
tanks, works ton. 27.00 -33.00
22°, cbys., c.l., works 100 lbs. 3.30 3.40
l.c.l., dlvd. Metropolitan area 100 lbs. 3.50 4.30
tanks, works ton. 32.00 -36.00
CP, USP consumers, cbys., extra, c.l., works lb. .11¾- —
l.c.l., same basis lb. .13¼- .13¾
5 pint bottles, extra, cs., c.l., same basis lb. .16¾ —
l.c.l., same basis lb. .19¼- —

Acid, muriatic, CP, USP, prices to dealers, 1½c. per lb. less.

Myristic, dms. lb. .25¼- .26½

Naphthenic, 220-230 acidity, dms., works lb. .14 - —
tanks, works lb. .12 - —

Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)

Naphthol(1)-5-sulphonic (see Acid, L).

Naphthol(1)-5-sulphonic,3-amino (see Acid, S).

Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).

Naphthol(2)-6,8-disulphonic (see Acid, Gamma).

(5)-7-Sulphonic,2-amino (see Acid, J).

Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)

Naphthylamine(1)-5-sulphonic (see Acid, Laurent's)

(2)-6-sulphonic (see Acid, Broenner's).

(2)-7-sulphonic (see Acid, F).

(2)-1-sulphonic (see Acid, Tobias).

Neville and Winther's, dms., frt. alld lb. 1.03 - —

Nicotinic, USP dms. frt. adjusted kilo. 9.00 - 9.30

Amide (see Nicotinamide).

Nitric 36° Be cbys., c.l., works, E. 100 lbs. 5.00 - —
l.c.l., works E 100 lbs. 5.30 -11.10
38° Be cbys., c.l., works E. 100 lbs. 5.50 - —
l.c.l., works E 100 lbs. 5.80 -11.60
40° Be cbys., c.l., works E. 100 lbs. 6.00 - 6.50
l.c.l. works E 100 lbs. 6.30 -12.10
42° Be cbys., c.l., works E. 100 lbs. 6.50 - 7.00
l.c.l., works E 100 lbs. 6.80 -12.60
60% HNO_3, tanks, works, basis 100% 100 lbs. 3.25 - —
95% HNO_3, tanks, works, basis 100% 100 lbs. 4.25 - —
CP, NF consumers, cbys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .15 - .15½
5 pint bottles, extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .19 - .25

Oleic, single distilled, dms lb. .13½- .14½
tanks lb. .11¾- —
double distilled (white), dms lb. .16 - .17¼
tanks lb. .14¼- —

Oleum (see Acid, sulphuric, fuming).

Orthochlorobenzoic, fib. dms., works lb. 1.13 - —

Orthocresotinic, dms., ton lots, works lb. .68 - —
smaller lots, works lb. .68 - —

Oxalic, bbls., c.l., works lb. .1573- .1890
10,000-lb. lots, works lb. .16 - .1615
smaller lots, works lb. .17 - .1715

Palm oil, white, dist., dms lb. .16¼- .17

Abbreviations

Used in OPD Market Quotations

ACS	American Chemical Society	dest-dist.	destructive-distilled	neut.	neutral
		dextro	dextrorotatory	NF.	National Formulary
alld.	allowed	dist.	distilled	No.	number
ammo.	ammonia	distr.	distributor	nom.	nominal
amorph.	amorphous	djns.	demijohns	ord.	ordinary
AMP.	American melting point	dlvd.	delivered	oz	ounce
		dms.	drums	Pac.	Pacific
anhyd.	anhydrous	dom.	domestic	pf.	proof
a.p.a.	available phosphoric acid	E.	east	phos.	phosphate
		e.p.	end point	photo.	photographic
artif.	artificial	equald.	equalized	pkgs.	packages
ASTM.	American Society for Testing Materials	F	fahrenheit	powd.	powdered
		ferment.	fermentation	precip.	precipitated
		ffa.	free fatty acid	prod.	producer
		ffc.	free from chlorine	pt	point
Be.	Baume	fib.	fiber	pulv.	pulverized
bbls.	barrels	f.o.b.	free on board	purif.	purified
bgs.	bags	FPA.	free of prussic acid	redist.	redistilled
bls.	bales			refd.	refined
bots.	bottles	frt.	freight	refy.	refinery
b.p.	boiling point	fus.	fused	reg	regular
b.p.l.	bone phosphate of lime	gal.	gallon	resub.	resublimed
		gran.	granular	ret.	returnable
b.r.	boiling range	grd.	ground	SD.	specially denatured
bxs.	boxes	i.&a.	iron and aluminum		
C.	centigrade			s.d	single distilled
cbys.	carboys	i.b p.	initial boiling point	S E.	southeast
CD.	completely denatured			secs.	seconds
c.i.f.	cost, insurance, freight	imp.	imported	s.g	specific gravity
		incl.	included	shipt.	shipment
cks.	casks	indust.	industrial	solut.	solution
c.l.	car lots	kgs.	kegs	s.u	standard unit
cns.	cans	lacq.	lacquer	synth.	synthetic
col.	color	lb.	pound	tanks.	railroad tankcars
coml.	commercial	l.c.l.	less than car lots	tech.	technical
conc.	concentrated	liq.	liquid	USP.	U. S. Pharmacopoeia
CP.	chemically pure	m.a.p.	mixed anilin point		
cps.	centipoises	M c.f.	thousand cubic feet	vis.	viscosity
cryst.	crystal			VM&P	varnish makers & painters
cs.	cases	min.	minimum		
ctns.	cartons	m.p.	melting point	W	west
cyls.	cylinders	N.	nitrogen	whse.	warehouse
dbl.	double	nat.	natural	w w	water white
denat.	denatured				

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material

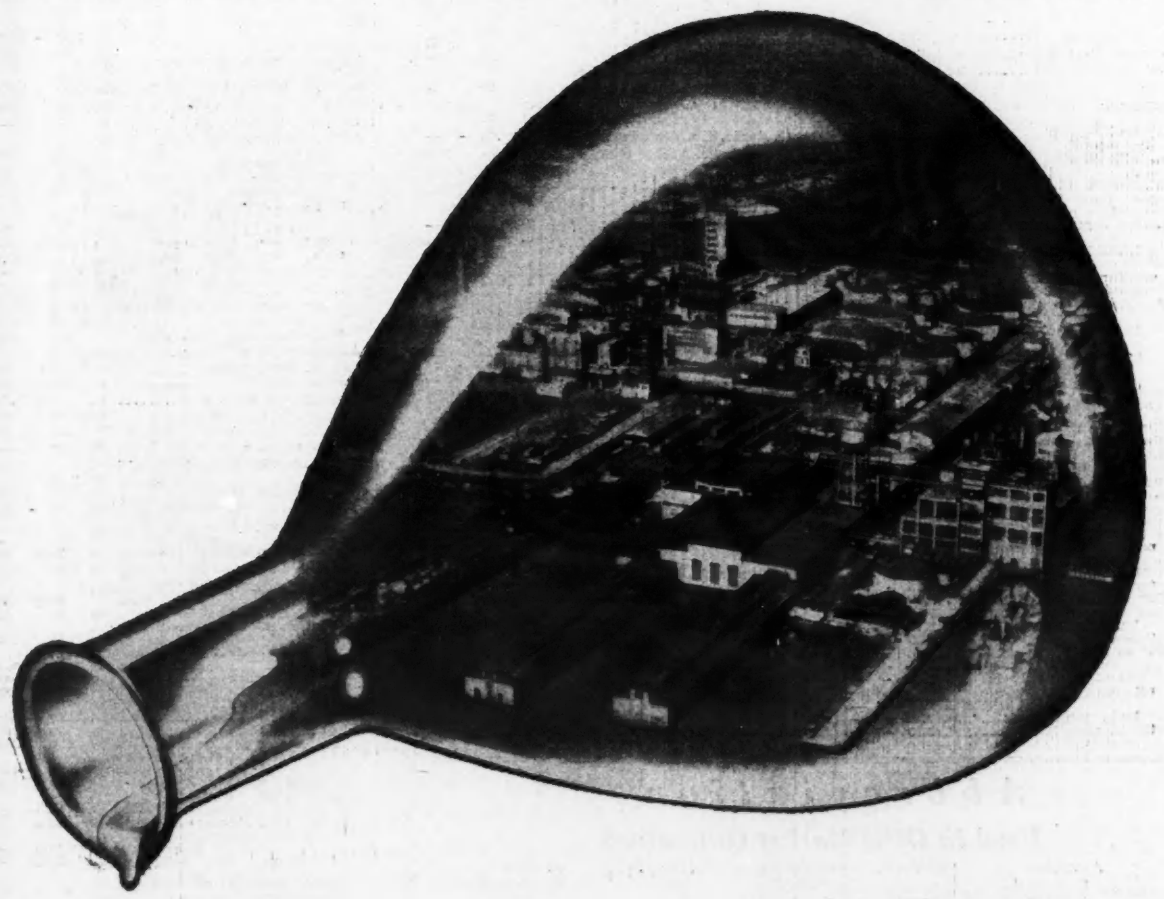
Acid, Para-Aminobenzoic—Alcohol, Iso-Octyl

Acid, para-aminobenzoic, tech., dms., lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 3.50 - —
smaller lots lb. 3.55 - 3.75
Para-aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.45 —
smaller lots, same basis lb. 4.50 - 4.95
Parachlorobenzoic, fib. dms., works lb. 1.59 - 1.62
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic, dms lb. .77 - —
Paratoluidinmetasulphonic, bbls., works lb. .92 - 1.04
Phenylacetic, bots lb. 1.45 - 1.75
tech., dms., 1,000-lb. lots lb .90 —
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, food grade, 75%, cbys., c.l., works 100 lbs. 7.00 - 7.10
l.c.l., works 100 lbs. 7.50 - 8.00
tanks, works 100 lbs. 4.90 5.00
NF, 85%, cbys., c.l., works lb. .08 .08¼
l.c.l., works lb. .09½ .09¼
Picric, NF 300-lb. bbls lb. .55 —
dms., small lb. .81 - .87
tech., bbls lb .32 .33
Propionic, synthetic, pure, dms., c.l., works lb. .258 —
l.c.l., works lb. .263 —
tanks, works lb. .19 - .243
Pyrogallic, NF, (see Pyrogallol)
tech., bbls lb. 2.76 2.99
Pyroligneous, dms., incl., l.c.l., works gal. .36 - —
whse. gal. .504 - —
Ricinoleic (see Acid, castor oil, split).
S, bbls., works lb 3.25 - —

Acid, salicylic, crude, bgs lb. .38 - —
sublimed, tech., bbls., c.l. lb. .37 - —
l.c.l. lb. .44 - —
dyestuffs grade, bbls lb. .39 - —
USP, cryst., bbls lb. .46 - —
powder, bbls lb. .51 - —
Sebacic, purified, dms., c.l., works, lb. .85½ - .88
l.c.l., works lb. .86 - .88½
Soybean oil, double dist., dms lb. .12¾ - .14
single, dist., dms lb. .12¼ - .13½
Stearic, double pressed, bgs lb. .12 - .13¼
single pressed, bgs lb. .11½ - .12¾
triple-pressed, bgs lb. .14¼ - .15½
Succinic, purified, cryst., bbls., works lb .63 - .75
Sulphanilic, tech., dms., c.l., frt. alld lb. .18 - —
l.c.l., frt. alld lb. .20 - —
Sulphuric, 60° Be, cbys., c.l., works 100 lbs. 1.75 —
l.c.l., works 100 lbs. 2.05 2.85
tanks, works ton 16.30 —
66° Be, cbys., c.l. works 100 lbs. 2.00 2.10
l.c.l., works 100 lbs 2.30 3.10
tanks, works ton 20.00 —
96-100%, tanks, works ton 21.00 —
CP, NF, consumers, cbys., extra, c.l., works, frt. equald, lb. .09¾ - —
l.c.l., same basis lb. .11¼ - .11¾
5 pt. bots., extra, cs., c.l., works, frt. equald lb. .13¼ - —
l.c.l., same basis lb. .14¾ - .20¾
fuming, 20%, tanks, works ton 22.40 - —
Tallow, dist., dms lb. .10½ - .11¾
hydrogenated, dms lb. .10½ - .11¾

Acid, tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 1.59 - 1.60
smaller lots lb. 1.63 - 1.76
powder, bbls., 1,000-lb. lots lb. 1.50 - —
smaller lots lb. 1.51 - 1.69
tech., dms lb. .95 - —
Tartaric, USP, dom., 230, 250-lb., dms., c.l. lb. .39½ - —
10,000-lb. lots, 1 ship't lb. .40 - —
smaller lots lb. .40½ - —
100-lb. dms. lb. .41½ - —
small dms. lb. .43½ - .49½
imported, bgs lb. .30½ - .31
Thioglycolic, refined, bgs., cbys., basis 100% lb. 1.60 - 1.86
Tobias, bbls., frt. alld lb. .74 - —
Toluenesulphonic, dms., c.l., works works lb. .16 - —
l.c.l., works lb 17½ - —
Trichloroacetic, bots lb. 2.00 - 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5-T).
Tungstic, tech., kgs., works lb 4.30 - —
Undecylenic, dms lb 1.40 - —
Aconite leaves, bls lb .25 - .35
root, bls lb. .65 - .75
Aconitine, amorph., mild, bots oz. 27.50 - 32.50
cryst., potent, bots oz. 75.00 - 85.00
Acrolein, dms, works lb. .50 - —
Acrylonitrile, dms., c.l., works lb. .44½ - —
l.c.l., works lb .45 - .47
tanks, works lb 43 - —
ACTH, bots gm. 25.00 - —
Adeps lanae (see Lanolin).
Adonis vernalis herb, bls lb. .22 - .24
Adrenocorticotropic hormone—see ACTH
Agar, USP, Kobe No. 1 strip, bls. lb. 1.75 - 2.25
powdered, 30 mesh, fib. dms. lb. 2.25 - 2.50
Agaric, white, bls lb. 2.25 Nom.
Agrimony herb, bls lb. .25 - .30

Alanine, dextro-laevo, dms., works lb. 8.50 - 11.00
Albumen (egg), edible, flake, bbls., lb. 2.39 - 2.41
powd., bbls lb. 2.43 - 2.45
tech., cryst., bbls lb. 1.03 - 1.08
Albumin, blood, dark (see Blood, dried, soluble),
light, dms., l.c.l. lb. .70 - .80
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .31¾ - —
l.c.l., dlvd lb. .32½ - —
tanks, dlvd. lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, ref.)
ex pentane, dms., c.l., frt. alld. E. of Rockies lb. .20½ - —
l.c.l., frt. alld. E. of Rockies lb. .21½ - —
tanks, frt. alld. E. of Rockies lb. .20 - —
fermentation, ref'd., 126°-132°C, dms., c.l., dlvd lb. .32¾ - —
l.c.l., dlvd lb. .33¾ - .36
tanks, dlvd lb. .31 - —
128-132° C., dms., l.c.l., dlvd. lb. .33¾ - .36
ACS grade, dms., l.c.l., dlvd lb. .35¾ - —
synthetic, normal, dms., c.l., works lb. .42 - —
l.c.l., works lb. .43 - —
tanks, works lb. .40 - —
secondary, dms., c.l., frt. alld. E lb. .23 - —
l.c.l., frt alld. E lb. .24 - —
tanks, frt. alld. E lb. .22½ - —
tertiary, dms., c.l., frt. alld. E. lb. .20¼ - —
l.c.l., frt. alld. E lb. .20¾ - —
tanks, frt. alld. E lb. .19 - —
Benzyl, NF, dms lb. .64 - .80
tech., dms., dlvd lb. .47½ - .49
Butyl, fermentation, normal, dms., c.l., frt. alld lb. .14¾ - —
l.c.l., frt. alld lb. .15½ - —
tanks, frt. alld lb. .13 - —
synthetic normal, dms., c.l., frt. alld lb. .14¾ - —
l.c.l., frt. alld lb. .15½ - —
tanks, frt. alld lb. .13 - —
secondary, dms., c.l., frt. alld. lb. .12¾ - —
l.c.l., frt. alld lb. .13½ - —
tanks, frt. alld lb. .11 - —
tertiary, dms., c.l., frt. alld. lb. .13¾ - —
l.c.l., frt. alld lb. .14½ - —
tanks, frt. alld lb. .12 - —
Capryl, 85%, dms., c.l., works lb. .15 - —
l.c.l., works lb. .15½ - —
tanks, works lb. .13½ - —
95%, dms., c.l., works lb. .16½ - —
l.c.l., works lb. .17 - —
tanks, works lb. .15 - —
Cetyl, extra, fib., cns., 500-lb. lots or more lb. 1.32 - —
smaller lots lb. 1.37 - —
NF, fib., cns., 140-lb. lots or more lb. .72 - .95
smaller lots lb. .72 - 1.00
Cinnamic, bots lb. 2.25 - 3.20
Decyl, bots lb. 1.70 2.00
Denatured, CD12, CD13, CD14, dms., c.l., dlvd. E. of Rockies gal .68½ - .69¼
l.c.l., dlvd., same basis gal. .72½ - .78¼
tanks, dlvd., same basis gal. .56½ - .57½
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .69½ - —
l.c.l., same basis gal. .73½ - .78¼
tanks, same basis gal. .57½ - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms., c.l., dlvd. E. of Rockies gal. .69 - .69¼
l.c.l., same basis gal. .73 - .78½
tanks, same basis gal. .57 - .57½
SD2B, dms., c.l., dlvd. E. of Rockies gal. .68 - —
l.c.l., same basis gal. .72 - .77
tanks, same basis gal. .56 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .67 - .68
l.c.l. same basis gal. .71 - .77
tanks, same basis gal. .55 - .56
SD23A, dms., c.l., dlvd. E. of Rockies gal. .69 - .69¼
l.c.l., same basis gal. .73 - .78½
tanks, same basis gal. .57 - .57½
SD23H, dms., c.l., dlvd. E. Rockies gal. .69½ - .70
l.c.l., same basis gal. .73½ - .79
tanks, same basis gal. .57½ - .58
SD27A, dms., c.l., dlvd. E. of Rockies gal. 1.34½ - —
l.c.l., same basis gal. 1.38½ - 1.43¼
tanks, same basis gal. 1.22½ - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .68½ - .70¼
l.c.l., same basis gal. .72½ - .79½
tanks, same basis gal. .56½ - .58½
SD30, dms., c.l., dlvd. E. of Rockies gal. .66½ - .68½
l.c.l., same basis gal. .70½ - .77½
tanks, same basis gal. .54½ - .56½
SD35A, dms., c.l., dlvd. E. of Rockies gal. .70 - .72
l.c.l., same basis gal. .74 - .81
tanks, same basis gal. .58 - .59½
SD40, dms., c.l., dlvd. E. of Rockies gal. .68½ - .70
l.c.l., same basis gal. .72½ - .79
tanks, same basis gal. .56½ - .58
Diacetone, acetone free, dms., c.l., dlvd lb. .13¾ - —
l.c.l., dlvd lb. .14½ - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13¼ - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11½ - —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal. 20.62 - 20.64½
l.c.l., same basis gal. 20.66 - 20.73½
tanks, same basis gal. 20.50 - 20.52½
tax free, dms., c.l., dlvd. E. of Rockies gal. .67 - .69½
l.c.l., same basis gal. .71 - .78½
tanks, same basis gal. .55 - .57½
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies, gal. 21.72 - 21.74½
l.c.l., same basis gal. 21.76 - 21.83½
tanks, same basis gal. 21.60 - 21.62½
Ethylbutyl, dms., c.l., works lb. .29¼ - .29½
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
Ethylhexyl, dms., c.l., dlvd. E lb. .27¾ - —
l.c.l., same basis lb. .28¾ - —
tanks, same basis lb. .26¼ - —
Furfuryl, tech., cns., works lb. .31 - —
dms., c.l., works lb. .22½ - —
l.c.l., works lb. .24 - —
tanks, works lb. .19½ - —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd lb. .13¾ - —
l.c.l., dlvd lb. .14½ - —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd lb. .26¼ - —
l.c.l., dlvd. lb. .27 - —
tanks, dlvd. lb. .24½ - —



ACETALDEHYDE
ACETIC ACID, GLACIAL
ACETONE C. P.
AMYL ACETATE
BUTYL ACETATE, NORMAL
BUTYL ALCOHOL, NORMAL
ETHYL ACETATE
ETHYL ALCOHOL
FUSEL OIL, REFINED
ISOAMYL ALCOHOL
PACO SOLVENT, T.R. 590

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HIGHEST QUALITY...
ADEQUATE SUPPLY...
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INDUSTRIES INC.
ONE OF THE WORLD'S LARGEST PRODUCERS OF ALCOHOLS AND SOLVENTS
1429 WALNUT ST., PHILA. 2, PA.

Alcohol, isopropyl, refd., 91%, dms., c.l., dlvd. gal. .5050- .5225
t.c.l., dlvd. gal. .5550- .5640
tanks, dlvd. gal. .3850- —
95% dms., c.l., dlvd. gal. .52¾- .53
t.c.l. dlvd. gal. .57¾- .58
tanks, dlvd. gal. .40¾- .41
99% dms., c.l., dlvd. gal. .55 - .56¾
t.c.l., dlvd. gal. .60 - .61
tanks, dlvd. gal. .43 - —
Lauryl, bots lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl)
Octyl, perfumer's grade, bots lb. 1.70 - 3.25
technical (see Octanol normal).
Pantothenyl (see Panthenol).
Phenylethyl, dms. lb. 1.57 - 2.15
Polyvinyl, various grades, bgs., ton lots, works lb. .72½- .76
smaller lots works lb. .77½- .81
Propyl, normal, dms., c.l., dlvd. lb. .12 - —
t.c.l., dlvd. lb. .13 - —
tanks, dlvd. lb. .10 - —
Tetrahydrofurfuryl, cns., Waverly, N. Y. lb. .49½- —
dms., Niagara Falls, N. Y. lb. .42½- —
t.c.l., Waverly, N. Y. lb. .45 - —
tanks, Niagara Falls, N. Y lb. .40 - —
Industrial grade, dms. c.l., Niagara Falls N. Y lb. .29 - —
t.c.l., Waverly N. Y lb. .30 - —
tanks, Niagara Falls N. Y lb. .27 - —
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms gal. 2.15 - —
Aldrin, 60% solut. dms., c.l., works, frt. alld lb. .93 - —
t.c.l., works, frt. alld lb 1.05 - —
Aletris root, bgs lb. 1.20 - 1.25
Alkanet root, bgs lb. .45 - .46
Allethrin, 100%, dms., frt., alld lb.32.00 - —
90%, dms., frt. alld lb.28.80 - —
solution, 20%, dms. 100-lb. lots frt. alld lb. 6.65 - —
2½%, dms., frt. alld gal. 6.00 - —
Allspice (see Pimento)
Allyl bromide, cbys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd lb. .16¾- —
t.c.l., dlvd. lb. .17½- —
tanks, dlvd lb. .15 - —
Starch, solid, dms., works lb. .52¾- .54¼
solution, 40% toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs lb. .35 - .38
powdered, cs. lb. .40 - .41
Curacao, kgs. lb. .60 - .65
Socotrine, kgs. lb. .25 - .35
Aloin, USP, bbls., dms., kgs lb. 4.25 - 4.70
Alphanaphthol, bbls, frt. alld lb. .85 - —
Alphanaphthylamine, bbls, frt. alld lb. .45 - —
Alphanitronaphthalene, bbls., frt. alld lb. .41 - —
Alphapicoline, ret. dms., c.l., works, frt. equald lb. .39½- .49½
t.c.l., works, frt. equald lb. .40 - .50
Alphapinene, tanks, South, works gal. No prices.
Alphaterpineol, dms., t.c.l., dlvd. E. lb. .17 - —
Alphatocopherol, bots kilo.250.00 - —
Acetate, bots kilo.250.00 - —
Althea root, NF, peeled, bls lb .20 - .33
Alum, ammonium, gran., bgs., works 100 lbs. 3.80 - —
lump, dms., works 100 lbs. 4.55 - 4.95
powd., dms., works 100 lbs. 4.70 - 5.10
USP, burnt, dms lb. .20 - .21
hydrous, dms lb. .07¾- .08
Potassium, gran., bgs., works 100 lbs. 4.95 - —
lump, dms., works 100 lbs. 4.80 - 5.20
powd., dms., works 100 lbs. 4.95 - 5.35
USP, burnt, dms lb. .20 - .21
hydrous, dms lb. .07¾- .08
Potash-chrome, dms lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
t.c.l., works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works, lb. .0385- —
t.c.l., works lb. .0410- .0510
crystalline (see Aluminum oxide).
Aluminum acetate, basic solut., 24%, bbls., t.c.l., works lb. .14 - —
Chloride, com'l, anhyd., dms., c.l., works, frt. equald lb. .15 - —
t.c.l., works, frt. equald, lb. .1550- —
cryst., dms., c.l., works lb. .1030- —
t.c.l., works lb. .1070- —
solution, 32°, cbys., c.l., works, lb. .0369- —
t.c.l., works lb. .0435- .0960
tankcars, works 100 lbs. 2.80 - —
NF, gran., dms, works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. .11¾- —
t.c.l., works lb. .12¾- —
Aluminum fluoride, fiber dms., 35c. per 100 lbs. higher.
Formate, basic solution, cbys lb. .09½- —
t.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton.60.00 - —
t.c.l., works ton.65.00 -85.00
light, bgs. dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib. dms., works lb. .82½- —
contract, works lb. .79½- —
powder, tech (see Aluminum hydrate).
Laurate, precip, bbls lb .44 - —
Metal, 99% + ingots, 10,000-lb. lots, lb. .20 - —
pigs, 10,000-lb. lots lb. .19 - —
Oxide, amorphous (see Alumina, calcined).
crystalline, flour classified, 6-240 mesh, dms, frt. alld lb. .14 - .15
kgs., frt. alld lb. .12½- —
smaller lots, frt. alld, lb. .13 - .15
238-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt alld lb. .31 - —
500 mesh, dms., frt. alld lb. .35 - .37
kgs., frt alld lb. .34 - —
600 mesh, dms., frt. alld, lb. .51 - .53
kgs., frt. alld lb. .50 - —
Aluminum oxide flour prices W. of Denver ¾c. per lb. higher.
optical, floated, kgs., dlvd lb .36 - .86
unclassified, dms., frt. alld, lb. .16 - .17
kgs. frt alld lb. .15 - —
Paste, lining, extra-fine, dms lb. .59½- —
standard, dms lb .41 - —
Powder, lining, extra fine, dms. lb. .97½- —
standard, dms lb. .68½- —
rubber grade, dms lb. .58½- —
unpolished, standard, dms lb. .54½- —
varnish, standard, dms lb. .50 - —

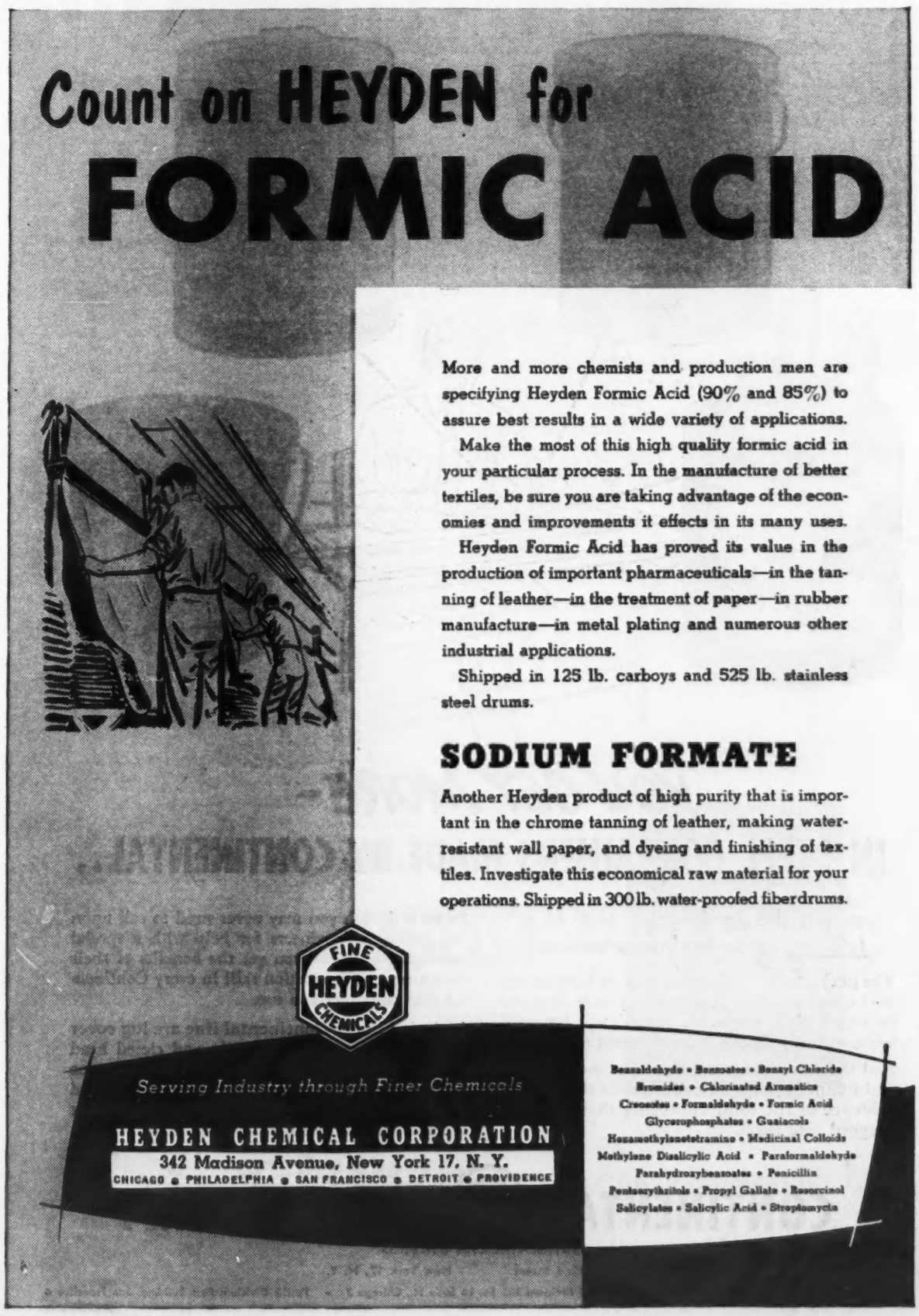
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb for 100-lb. dm., 1½c. per lb for 50-lb. dm., 3c. per lb. for 10-lb can and 5c. to 12c. per lb for smaller containers. Deduct 1c. per lb for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs. 3c for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Aluminum resinate, precip, dms., frt. alld lb. .27½- —
Stearate, dibasic, ctns., c.l. lb. .33 - —
ton lots or less lb. .34 - —
monobasic, ctns., c.l. lb. .33 - —
ton lots or less lb. .34 - —
tribasic, ctns., c.l lb. .33 - —
ton lots or less lb. .34 - —
Sulphate, com'l, bulk c.l., works, 100 lbs. 1.65 - —
ground, bgs., works ton.33.00 - —
lump, bgs., works ton.36.00 - —
iron-free, bgs. c.l., works, frt. equald 100 lbs. 3.25 - —
t.c.l., works, frt. equald 100 lbs. 3.65 - 6.15
USP, gran., dms., works lb. .10 - .12
powd., dms., works lb. .14 - .16
Trihydrate, heavy (see Aluminum hydrate).
Ambergris, gray, bots oz. 8.00 -10.00
Ambrette seed, bgs lb. .65 - .66
Aminoazotoluene, bbls lb. .94 1.03
Aminoethylethanolamine, dms., c.l., dlvd lb. .46½- —
t.c.l., dlvd lb. .47½- —
tanks, dlvd lb. .45 - —
Aminomethylpropanol, cns., dms., works lb. .60 - —
Aminophyllin, USP, 100-lb. dms lb. 4.30 — —
Aminopyrine, USP bots, dms lb 6.00 6.15
Ammonia, anhydrous, fertilizer, tanks, works ton 79.00 -80.00
pure, cyls., extra, zone 1 lb. .17 .17½
2 lb. .17 - .18
3 lb. .17 - .19
4 lb. .20 - .21
5 lb. .16 - .19
refrigeration tanks, works ton.80.00 -82.50
Aqua, (29.4% NH_3), dms., c.l., dlvd. Met. area 100 lbs. 3.60 - —
t.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis ton.80.00 -86.00

Ammoniac gum (see Gum, ammoniac).
Sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
t.c.l., same basis 100 lbs. 8.65 -11.15
white, gran., bgs., c.l., works 100 lbs 4.75 - —
t.c.l., works 100 lbs. 6.50 - —
Ammoniacal liquor, tankcars, works, anhyd basis ton 75.00 -80.00
Ammonium acetate, purified, dms. lb. 43 - —
Benzoate, USP, dms, kgs. 4.000 lb. lots, frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Bihorate, bbls., c.l., works ton.312.00 - —
ton lots, ex whse ton.375.00 - —
less ton lots, ex whse ton.380.00 - —
Bicarbonate, dom., dms., c.l., works lb. .06 - —
t.c.l., works lb. .07 - —
imported, dms., t.c.l lb. .07¼- .08¼
Bichromate, bbls, works lb. .33 - .38
Bifluoride, dms., dlvd lb. .18¾- .19¼
Bromide, NF, gran., bbls lb. .38 - .39
dms. lb. .39 - .42
Powdered ammonium bromide 10c. per lb higher
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech. (see Ammoniac sal).
USP, gran., bbls., dms lb. .17¼- —
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .80 - .85
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms lb. 2.40 - —
Iodide, NF, bots., jars rb. 4.01 - 4.13
Linoleate, 80%, dms., works lb. .50 - .55

Alcohol, Isopropyl—Ammonium Sulphate

Ammonium nitrate, fertilizer grade, Canadian, eastern, 33.5% N, bgs., c.l., shipping point ton.72.50 - —
western, 33.5% N., bgs., f.o.b. cars, Los Angeles ton.86.84 - —
domestic, bgs., western works ton.64.00 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton 51.00 - —
Oleate, 75%, dms, works lb. .55 - .60
Oxalate, fine gran., dms lb .75 - .31
Pentaborate, gran., bbls., c.l., works ton 222.00 - —
ton lots, ex whse ton.285.50 - —
less ton lots, ex whse ton.290.00 - —
Ammonium pentaborate powder, $10 per ton higher
Perchlorate, kgs., works lb. .50 - .75
Persulphate, kgs. lb. .30 - .35
Phosphate, com'l, bgs., c.l., works, frt. equald lb. .08½- —
t.c.l., same basis lb. .09 - —
dibasic, NF V bbls, dms lb. 45 - —
tech., bgs., c.l., works, frt. equald lb. .08½- —
t.c.l., same basis lb. .09 - —
Salicylate, NF, dms, kgs lb 1.62 1.64
Silicofluoride, dms., works lb. 11 - .12
Sulphamate, bbls., dms., works lb. .18 - .20
Sulphate, coke-oven, bulk, producing ovens ton 40.00 -45.00
synthetic, bgs. c.l., western works ton 50.00 -54.50
bulk, works ton.47.00 - —
purified, dms., works lb. .07½- .08¼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Methylene Disalicylic Acid • Paraformaldehyde
Parahydroxybenzoates • Penicillin
Pentaerythritols • Propyl Gallate • Resorcinol
Salicylates • Salicylic Acid • Streptomycin

Ammonium Sulphide—Betanaphthol Sulphate

Ammonium sulphide, liq., 40-45%, dms., c.l., basis 100%, works ton 211.50 - —
l.c.l., basis 100% works ton 312.50 - —
tanks, dlvd or frt. alld ton 181.50 - —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .18 - —
l.c.l. works lb. .19 - .30
Thioglycollate, com'l, cbys., basis 100% lb. 1.60 - —
highly purified, cbys., basis 100% lb. 1.70 - 1.96
Thiosulphate, cryst., photo grade, fib dms., frt. alld lb. .65 - —
Amphetamine hydrochloride dibasic, dextro, bots lb. 32.00 - —
dextro-laevo, dms lb 6.50 - 7.00
monobasic, dextro, bots lb. 32.00 - —
Phosphate, dibasic, dextro, bots. lb. 32.00 - —
dextro-laevo, dms lb 6.50 - 7.00
Sulphate, dextro, dms lb. 32.00 - —
dextro-laevo, dms lb. 6.50 - 7.00
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd. lb. .16¾- —
l.c.l., dlvd lb. .17½- —
tanks, dlvd lb. .15 - —
ex pentane, dms., c.l., frt. alld, E. of Rockies lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms lb. .90 - 1.05
Cinnamic aldehyde, dms lb. 1.70 - 2.10
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .77 - .95
Anethol, NF, cns., dms lb. 1.20 - 1.60
Angelica root, dom., bls lb. .60 - .70
imported, bls. lb. .50 - .80
Angostura bark, bls lb. .43 - .48
Anilin oil, dms., c.l., works, frt. alld. lb. .19 - —
l.c.l., works, frt. alld lb. .20 - —
tanks, works, frt. alld lb. .18 - —
Salt, dms., frt. alld lb. .30 - —
Anise, Bulgarian, bgs lb. .12 - .13
Chinese, star, bgs lb. .68 - .70
Czech, bgs lb. .12½- .13
Mexican, bgs lb. .14½- .15
Spanish, bgs lb. .15 - .15½
Syrian, bgs. lb. .13 - .13½
Turkish, bgs lb. .12½- .13
Anisic aldehyde, bots., dms lb. 2.35 - 2.80
Annatto seed, whole, bgs lb. .26 - —
powdered, dms lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works lb. .80 - —
smaller lots, works lb. .85 - —
Anthraquinone, 99.5%, bbls., frt. alld lb. .85 - .88
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. .29 - —
cases, c.l., mines lb. .29½- —
Oxide, bgs., c.l., frt. alld lb. .30 - .36
l.c.l., frt. alld lb. .31½- .37½
Sulphide, 62-64%, bgs. dlvd lb. .38 - .38½
Trichloride, pails, c.l., works lb. .43 - .47
l.c.l., works lb. .45 - .49
solution, cbys., works lb. .29 - .30
Antimony-potassium tartrate (see Tartar emetic.
Antipyrene NF, dms lb. 2.50 - 2.60
Apomorphine hydrochloride, USP, bots oz. 23.40 - 23.90
Areca nuts, powd., bbls lb. .13 - .16
Arecoline hydrobromide, NF, bots. tins oz. 5.00 - 5.75
Arginine monohydrochloride, laevo, dms., 1 kilo lots kilo. 77.00 - —
Argols, min. 50%, bgs., shipment ports, per 100 kilos, basis 100% lb. 26.00 - —
Arnica flowers (true montana), bls. lb. .65 - .66
root, bls lb. 1.45 - —
Arrowroot, powd., bgs lb. .11 - .14
Arsenic metal, lump, bbls., prompt ship't lb. .80 - .90
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd. lb. .05½- —
l.c.l., dlvd. lb. .06½- .07½
Asafetida, cs lb. .32 - .35
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton. 1,300.00- —
No. 2, c.l. (20 tons), mines ton. 675.00 - —
Run-of-mine, c.l. (20 tons), mines ton. 556.00 - —
3K, cl., (20 tons), mines ton. 436.00 - —
3R, c.l. (20 tons), mines ton. 371.00 - —
3T, c.l. (20 tons), mines ton. 348.00 - —
3Z, c.l. (20 tons), mines ton. 321.00 - —
4K, c.l. (20 tons), mines ton. 173.00 - —
4M, c.l. (20 tons), mines ton. 173.00 - —
4T, c.l. (20 tons), mines ton. 156.00 - —
4Z, c.l. (20 tons), mines ton. 156.00 - —
5D, c.l. (20 tons), mines ton. 122.50 - —
5K, c.l. (20 tons), mines ton. 122.50 - —
5M, c.l. (20 tons) mines ton. 116.50 - —
5R, c.l. (20 tons), mines ton. 110.00 - —
6D, c.l. (30 tons), mines ton. 78.00 - —
7D, c.l., (30 tons) mines ton. 68.50 - —
7F, c.l. (30 tons), mines ton. 65.00 - —
7H, c.l. (30 tons), mines ton. 55.00 - —
7K, c.l. (30 tons), mines ton. 46.00 - —
7M, c.l. (30 tons), mines ton. 40.00 - —
7R, c.l. (30 tons), mines ton. 39.00 - —
7T, c.l. (30 tons), mines ton. 37.00 - —
Asbestos, Canadian, crude, 7RF, c.l., (30 tons), mines ton. 40.00 - —
7TF, c.l. (30 tons), mines ton 40.00 - —
8S, c.l. (30 tons), mines ton 37.00 - —
Asbestos c.l. prices are in U. S. funds. L.c.l. lots, $4 per ton higher.
Asphalt, gilsonite, black, seconds, 300°-390°F fusing point not uniform, bgs., c.l., Craig, Colo.; Heber City, Utah ton. 34.00 - —
select, 350°F. fusing point, bgs., c.l., same basis ton. 38.00 - —
270°-295°F. fusing point, bgs., c.l., same basis ton. 37.00 - —
jet, bgs., c.l., same basis ton. 34.00 - —
Manjak, No. 10, crude, dms., works lb. .06½- —
Petroleum, cut-back, tanks, tank-wagon, refinery gal. .09 - —
emulsion, tanks, tank-wagon, refinery gal. .09½ .10
steam-refd., less than 80 penetration, tanks, tankwagon, refinery ton. 22.00 - —
80-300 penetration, tanks, tank wagon, refinery ton 21.00 - —
Aspirin (see Acid, Acetylsalicyclic.)
Atropine, USP, bots. oz. 9.35 -10.50
Sulphate, USP, bots. oz. 5.25 - 6.30

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb 1.35 1.45
Barberry root bark, bags lb. .35 .40
tree bark, bgs lb. .40 .45
Barbital, USP, 100-lb. dms lb 5.00 —
Sodium USP dms lb 5.25 5.27
Barium carbonate, precip., bgs., c.l., works ton 115.50 —
smaller lots, wo.a ton 95.50 —
Chlorate, kgs., works lb .34 .38
Chloride, anhyd. bgs., c.l., works bgs ton 152.00 —
l.c.l., works ton 162.00 —
NF, cryst., dms lb. .16 - —
Chromate, bgs., frt. equald lb. .30 - —
Dioxide (see Barium peroxide)
Hydrate, crystals, bgs ton 190.00 200.00
Iodide bots lb 6.14 —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .12½- —
l.c.l. works lb .14 - —
Oxide grd. dms. c.l., works ton 250.00 - —
l.c.l., works ton 260.00 - —
Peroxide, dms., works lb .16 - —
Stearate, ctns., c.l. lb .37 - —
ton lots lb .38 - —
less ton lots lb. .39 - —
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls. lb .14 - —
Sulphide, dms., c.l., works ton 71.50 - —
l.c.l., works ton 81.50 - —
Baryte ore, approx. 94%, $BaSO_4$, bulk, mines ton 9.40 12.50
Barytes, Southern off-color, bgs. mines ton 20.00 —
95-75%, bgs. mines ton 20.00 —
water grd., paper bgs., c.l., St. Louis ton 37.60 37.85
ex-whse, N. Y. ton 53.45 -61.75
Bauxite, bulk, mines ton 9.50 10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .35 - .40
root, bls. lb. .35 - .40
Bentonite, 200 mesh bgs., works ton 12.50 —
Italian, white, high gel, bgs., l.c.l., works ton 71.40 - —
5 ton lots ton 68.90 - —
10 ton lots, ex dock ton. 57.00 - —
low gel, bgs., l.c.l. ton 69.70 - —
5-ton lots ton. 67.20 - —
10 ton lots, ex dock ton. 55.00 - —
Benzal chloride, cbys., works lb 22 - .23½
Benzaldehyde, NF, dms. lb. .74 - .79
tech., cbys., dms. lb. .49 .54
Benzene (see Benzol).
Hexachloride, 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l., works, gamma unit-lb. .013 - .015
l.c.l., works, gamma unit-lb. .019 - .021
dust, dry, distributors, dms., c.l., dlvd., gamma unit-lb. .0185- —
l.c.l., dlvd., gamma unit-lb. .0225- —
wet, distributors, dms., c.l., dlvd., gamma unit-lb. .0280- —
l.c.l., dlvd., gamma unit-lb. .0325- —
Benzidine base, bbls lb. 1.02 - —
Hydrochloride, bbls., frt. alld lb. .94 - —
Benzocaine, dms lb. 3.45 - 3.50
Benzol, pure, nitration, tanks, works, Bethlehem, Pa gal. .37 - —
Birmingham district gal. .30 - .35
Chicago district gal. .30 - .35
Cleveland district gal. .30 - .35
Geneva, Utah gal. .30 - —
Johnstown, Pa gal. .35 - —
Lackawanna, N. Y. gal. .37 - —
Lone Star, Texas gal. .37 - —
Lorain, Ohio gal. .30 - —
Minaqua, Colo gal. .35 - —
Philadelphia, Pa gal. .37 - .39
Pittsburgh district gal. .30 - .35
Sparrows Point, Md. gal. .37 - —
Syracuse, N. Y gal. .37 - —
Terre Haute, Ind gal. .35 - —
Wyandotte, Mich gal. .38¼- —
Youngstown, Ohio gal. .35 - —
Benzophenone, dms lb. 1.40 1.70
Benzonitrile, dms., c.l., works lb. .46¾- —
l.c.l., works lb. .47 - —
Benzotrichloride, cbys., frt. equald. lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .20½- .23½
l.c.l., same basis lb. .21½- .24½
Peroxide, pure, fib. ctns., works lb. .90 - 1.05
Benzyl acetate, f.f.c., cns., dms lb. .65 - 1.05
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms lb. .80 - —
Chloride, tech., cbys., c.l., works, frt. equald lb. .21 - —
l.c.l., same basis lb. .24 - —
High grade benzyl chloride, 2c. higher.
Cinnamate, cns lb. 3.00 - 4.00
Formate, cns lb. 1.60 - 2.10
Propionate, bots lb. 1.35 - 1.80
Salicylate, bots lb. 1.65 - 1.85
Benzylidinacetone, bots lb. 1.68 - 2.00
Benzylisoeugenol, cns. lb. 8.60 - 9.00
Berberine bisulphate, cns lb. 35.00 -36.25
Hydrochloride, bots lb. 35.00 -36.25
Berberis root, bls lb. .22 - .30
Betagammapicoline, 2°, dms., c.l., works lb. .29½- —
l.c.l., works lb. .30 - —
Betamethyinaphthalene, 32°C m.p., dms., works lb. .90 - —
Betanaphthol, resublimed, dms., works lb. .78½- —
tech., bbls., c.l., works lb. .32½- —
l.c.l., works lb. .34½- —
Benzoate, fib dms., works lb. 3.00 —
custom contract lb. 1.65 - 1.85
Salicylate, dms lb 5.00 —
Sulphate, cns lb. 35.00 -36.25

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Pregnenolone
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21-Acetoxypregnenolone
Desoxycorticosterone Acetate U.S.P.
Methylandrostenediol

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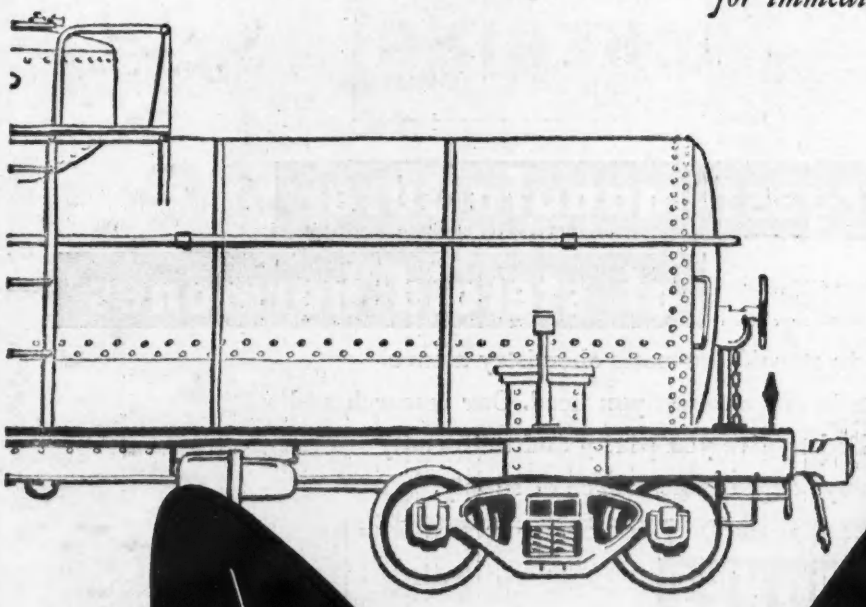
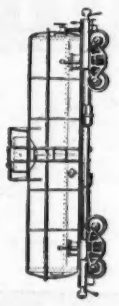
Betanaphthylamine—Butyric Ether

Betanaphthylamine, tech., bbls., works lb. 1.05 - 1.10
Betaphenylethylamine, dms., works, 1,000-lb. lots lb. 1.10 - —
smaller lots lb. 1.15 - 1.40
Betapicoline, 98%, dms., works lb 1.05 - —
Beth root, bls lb. .40 - .41
Biotin, cryst., bots gram 10.00 - —
Bismuth chloride, jars lb 5.11 - —
Hydroxide, dms lb 4.65 - —
Metal, bxs., ton lots lb 2.25 - —
Nitrate, cryst., dms lb 2.10 - 2.17
Oxide, anhydrous, dms lb 4.47 - 5.05
Oxychloride, dms lb 4.37 - 4.42
Phenolsulphonate, fib. dms lb 5.22 - —
Subcarbonate, USP, dms lb 3.20 - —
Subgallate, NF, fib. dms lb 3.15 - —
Subiodide, fib. dms lb 5.37 - —
Subnitrate, NF, dms lb 2.65 - —
Subsalicylate, USP, dms lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb 4.22 - —
Black, acetylene, bgs., c.l., works lb. .16 - —
cs, l.c.l., ship't point lb. .20 - .22
Bone, dms., t.c.l., frt. alld lb. .14¾ - .21
Pacific coast bone black prices, 2c. per lb. higher.
Carbon, channel, beads, bulk, c.l., works lb .07 - —
bgs., c.l., works lL. .0740- —
l.c.l., dlvd. or whse lb. .1225- —
uncompressed, regular, bgs., c.l., works lb. .10 - —
l.c.l., dlvd. or whse lb. .10 - —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb .10 - —
Black, carbon, high abrasion, bulk, c.l., works lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .1250- —
high modulus, bgs., c.l., works lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .04 - —
ctns., l.c.l., whse lb. .08 - —
Charcoal (see C).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works lb. .1175- —
l.c.l., works lb. .12 - —
Lamp, bgs., c.l., works lb. .16 - .45
Mineral, bgs., works lb. .0160- .0675
Black ash (see Barium sulphide).
Blackberry, root bark, bls lb. .25 - .30
root, bls lb. .15 .16
Black dyes (see Dyes).
Black haw, root bark, bls lb. .65 - .70
tree bark, bls lb. .38 .40
Black Indian hemp root, bls lb. .60 - .61
Blanc fixe, dry, by-product, bgs., c.l., works ton 100.00 —
l.c.l., works ton.110.00 - —
direct process, bgs., c.l., works ton 90.00 —
l.c.l., works ton.100.00 —
N. Y. whse ton 120 00 130 00
pulp, 66⅔%, bbls., c.l., works ton 84 00 - —
l.c.l., same basis ton 92 00 - —
Bleaching powder, dms., c.l., works 100 lbs 5.02 - —
l.c.l., works 100 lbs 6.52 - —
Blood, dried, 16-16½% ammo., bgs., unit-ton. 7.50 - —
high-grade, unground, 16-17% ammon, bgs., Chicago, unit-ton. 7.75 - —
soluble, bgs., c.l. lb. .17 - .18½
l.c.l. lb. .18 - .25
Bloodroot, bls lb. .55 - .56
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.00 - —
toner, bbls., litho flushed, same basis lb. 1.10 —
Chinese, bbls., same basis lb. .39¾ - .45
Cobalt, genuine, bbls., same basis lb 4.90 - —
imitation (see Blue, ultramarine).
Copper-phthalocyanine, full strength, bbls., same basis lb 3.85 - —
resinated, bbls, same basis lb 3.40 - —
water dispersable lb. 1.54 - —
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA bbls., same basis lb. 2.00 - —
tungstated, PTMA, bbls., same basis lb. 4.05 - —
Milori, bbls., same basis lb. .39¾ - .45
Peacock, fugitive, 100% color strength, bbls., same basis. lb. .75 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .39¾ - .45
soluble, bbls., same basis lb. .48 —
Soda, C.P., bronze, bbls., same basis lb. .39¾ - .45
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .28 - .30½
regular types, dry, bbls., same basis lb. .15 - .33½
Blue, victoria toner, molybdic, PMA bbls lb. 3.90 - —
tungstated, PTMA, bbls lb. 6.35 - —
Blue, dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1 6c. higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.
Blue dyes are listed under Dyes.
Blueflag, root, bls lb. .45 - .46
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls lb. .11 - .13
Bonemeal, raw, 4½% ammon., 50% phos., bgs., works, E ton.70.00 Nom.
steamed works, E ton.75.00 - —
Bone, phosphate, defluorinated (see D).
of lime (see Calcium phosphate, tribasic)
precipitated (see Calcium phosphate tribasic, NF, precip.).
Bones, raw, bulk, Atlantic ports ton.60.00 - —
Boneset leaves and tops, bls lb. .17 - .20
Borage flowers bls lb 40 - .49
Borax, tech., annydrous, bgs., c.l., works ton.74.50 - —
ton lots ex whse, N Y or Chi ton 120.25 - —
less ton lots same basis ton.125.25 - —
bulk, c.l., works ton 67 50 - —
crystals, 99½%, bgs., c.l., works ton.63 75 - —
ton lots, ex whse, N Y or Chi ton.109 50 - —
less ton lots, same basis ton.114.50 - —
bbls., c.l., works ton.88.25 - —
ton lots, ex whse., N. Y., or Chi ton.134.00 - —
less ton lots, same basis ton.139.00- —
bulk, c.l., works ton.59 25 - —
granular, 99½%, bgs., c.l., works ton.37 75 - —
less ton lots, same basis ton.88 50 - —
ton lots, ex whse., N. Y or Chi ton.83.50 - —
bbls., c.l., works ton.62.25 - —
ton lots, ex whse., N Y or Chi ton.108 00 - —
less ton lots, same basis ton.113.00 - —
bulk, c.l., works ton.33.25 - —
powder, bgs., c.l., works ton.42 75 - —
ton lots, ex whse, N Y or Chi ton.88.50 - —
less ton lots, same basis ton.93.50 - —
bbls., c.l., works ton.67 25 - —
ton lots, ex whse., N. Y or Chi ton.113.00 - —
less ton lots, same basis ton.118.00 - —
bulk, c.l., works ton.38.25 - —
Borax packed in kgs, $45.50 per ton higher than in paper bgs. UPS borax $15 per ton higher.
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point lb. .161 - .221
l.c.l. same basis lb. .171 - .241
Borneol, cns lb. 2.25 2.50
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
less truckload, works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulphur).
Bromine, purified cs., c.l., frt. alld, E. of Rockies lb. .25 - —
1,000-lb lots, same basis lb. .27 - —
dms., lead-lined, dlvd lb. .25 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 5.70
Bronze powder, aluminum (see A), Gold, litho, cns., dms., works, lb. .75 - .85
moulding, cns., dms., works lb. .85 1 00
printing ink, cns., dms., works lb. 1.05 - 1.25
radiator, cns., dms. works lb. .80 - .85
Broomtop, bls lb. .30 - .35
Brown, iron oxide, pure, bgs., c.l., works lb. .1275- —
l.c.l., works lb. .13 - —
Oxide, metallic, bgs., works lb. .0375- —
Sap, crystals, bgs., works lb. .12 - —
powdered bgs lb. .13 - —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
l.c.l., works lb. .04½- .15½
raw, paper, bgs., c.l., works lb. .04½ .13
l.c.l. works lb. .04¾- .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- —
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N Y lb. .06¼- —
l.c.l. works lb. .06½- —
raw, American, bgs., works lb. .06¼- .06½
Turkey type bgs., works lb. .06¼- .06½
Vandyke, bbls. works lb. .11 - —
Brucine, cns., 100-oz. lots oz. .30 - .32
Sulphate NF, cns., 100-oz. lots oz. .26 - .29
Bryonia root, bls lb. .22 - .34
Buchu leaves, bls lb. .35 - .40
Buckthorn bark bls lb. .13 - .17
cut and sifted, bls lb. .18 - .23
Berries, bgs lb. .80 .90
Burdock root, bls lb. .22 - .26
Butadiene, cyls, refinery lb. .22 - —
tanks, same basis lb. .12½- —
Butane, indust., tanks, group 3 gal. .05 - —
Butternut bark, bls lb. .23 - .25
Butyl acetate fermentation, normal, dms., c.l., frt. alld lb. .14¾- —
l.c.l., same basis lb. .15½- —
tanks, same basis lb. .13 - —
synthetic, normal, dms., c.l., dlvd. E. lb. .14¾- —
l.c.l., same basis lb. .15½- —
tanks, same basis lb. .13 - —
secondary, dms., c.l., dlvd. E. lb. .13¼- —
l.c.l., same basis lb. .14 - —
tanks, same basis lb. .11½- —
Alcohol (see Alcohol butyl).
Aldehyde, dms., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
tanks, dlvd lb. .20¾- —
Chloride, dms., c.l., works lb. .37½- —
l.c.l., works lb. .38 - —
Ether (see Ether butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .34¾- —
l.c.l., same basis lb. .35¾- —
tanks, same basis lb. .33 - —
Laurate, dms., works lb. .39 - —
Methacrylate normal, dms., less truckloads, works lb. .70 - —
Oleate, refd., dms., l.c.l., works lb. .36 - —
Phenylacetate, dms lb. 4.50 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms., l.c.l., frt. equald lb. .24 - .27¼
Butylamine (see Mono-, Di- or Tri-).
Butyric ether (see Ethyl butyrate).

available now in carload quantities

for immediate shipment





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8-11° Red Oil	8-11° White Oleic
Saponified Red Oil	Commercially Pure Oleic

Armour's new low-temperature solvent crystallization process—utilizing a solvent that does not react with the raw materials—assures you of ester-free oleic acids. In addition, pound for pound, you get more saponifiable fat material from Armour's oleic acids, at no premium in price. Available in 4,000 and 8,000 gal. tank cars and 55 gal. drums. Write today for current price quotations.

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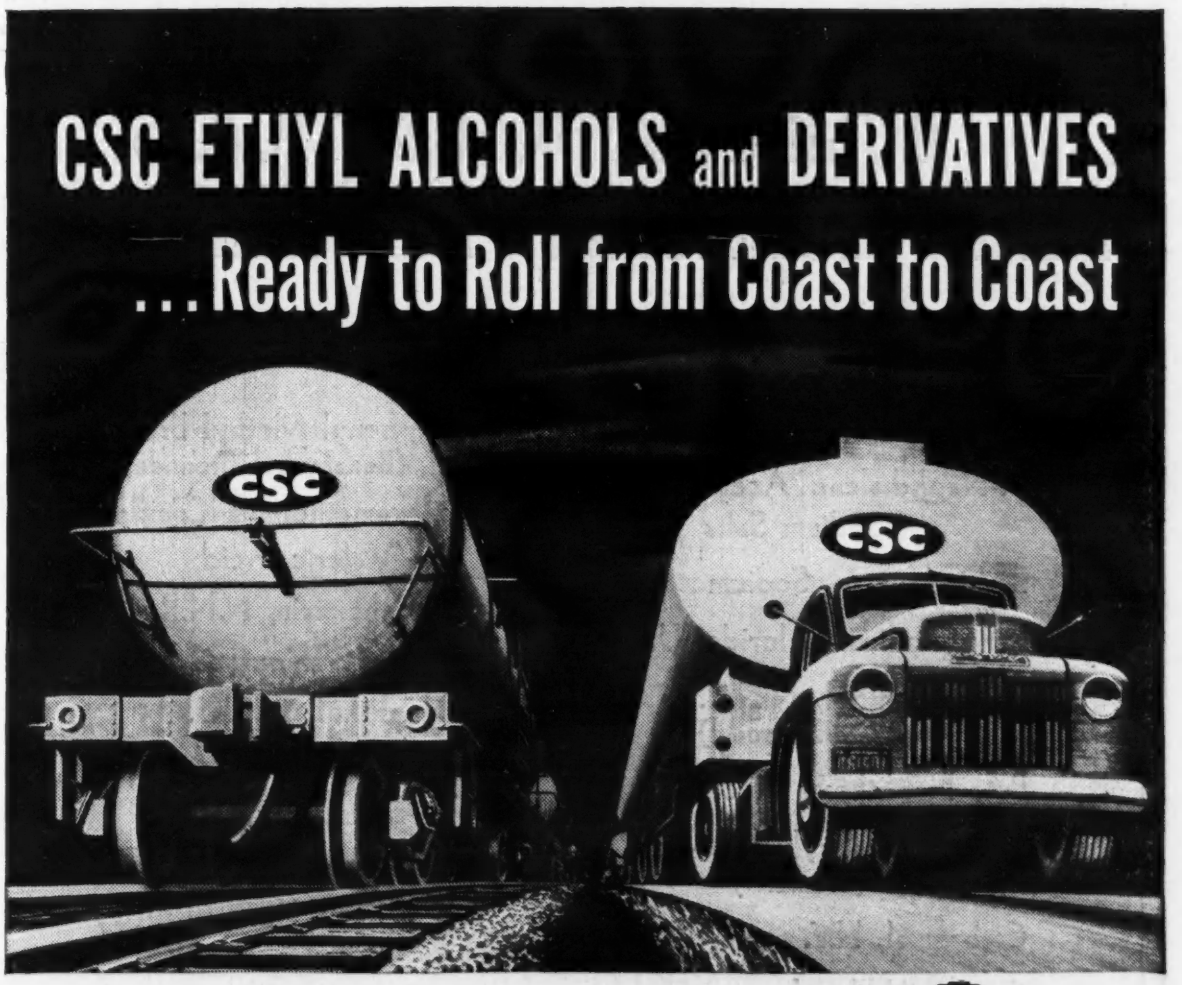
Armour and Company, 1355 W. 31st St., Chicago 9, Ill.

C

Cacao butter (see Cocoa butter).
Cadmium iodide, jars ..... lb. 5.56 - 6.75
Metal, ingots or sticks, cs., dlvd. lb. 2.00 - —
Stearate, 50-lb. ctns., l.c.l., frt. equald. lb. 1.25 - —
Caffeine, natural, USP, cryst., dms., 100 lbs. or more lb. 3.30 - —
anhydrous, dms. ..... lb. 3.50 - —
synthetic, USP, cryst., dms., 100 lbs. or more lb. 3.30 - —
anhydrous, dms., 100 lbs. or more lb. 3.50 - —
Citrated, USP, dms., 100 lbs. or more lb. 2.35 - —
Calamine, USP, dms ..... lb. .34 - —
Calamus root, dom., natural, bgs. lb. .25 - .30
imported, bleached, bls ..... lb. .70 Nom.
stripped, bls ..... lb. .30 - .40
Calciferol, cryst., vials, 250 grams or more, works gram. .95 - —
25 to 249 grams, works gram. 1.00 - —
in edible oil dms., 10,000 or more standard units (1 standard unit equals 1,000,000 USP units), works unit. .04¾- —
1,000 to 10,000 standard units, works unit. .05¼- —
less than 1,000 standard units, works unit .05¾- —
Calcium acetate, bgs., dlvd 100 lbs. 3.00 4.00
Arsenate dealers, dms., c.l., whse., works, frt. alld on 96 lbs. or over lb. .10 - .11
l.c.l., same basis lb. .11 - .12
Bromide, NF, jars ..... lb. .90 - .92
Calcium carbide, standard generator size, dms., c.l., dlvd ton. 134.40 - —
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars lb. .28 - .30
flake, 77-80%, paper bgs., c.l., works, frt equald ton. 25 00 - —
liquor, 40%, tankcars, works, frt. alld ton. 10.50 - —
pellets, bgs., c.l. works ton. 31.25 - —
powder, bgs., c.l., works ton. 35.65 - —
solid, 73-75%, dms., c.l., frt. equald ton. 23.50 - —
l.c.l., works, same basis ton. 32.00 - 69.00
USP, gran., bbls lb. .30 —
Chromate, bgs., frt. equald lb. .29½- .30
Cyanide, dms., dlvd E. of Rockies. lb. .30 - .50
Gluconate, AA, bbls., dms lb. .65 - .74
USP, bbls., dms lb. .58 - .67
Glycerophosphate, NF, fib. dms. lb. 2.00 - 2.15
Hydride, dms., works ..... lb. 2.40 - 3.00
Hydrochlorite, high test, cns., cased (45 lbs.) dlvd. E. of Rockies cs. 21.00 - 23.00
100-lb. lots, same basis dm. 25.25 - 29.85
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars lb. 4.32 - —
Lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb. .41 - .48
Mancetate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq., 4% Ca, dms., frt. equald lb. .25¾- —
Nitrate, tech., bbls., works lb. .10 - .12
fertilizer grade, bgs. c.l., Los Angeles ton. 49.25 - —
Pantothenate, dextro, jars, 100 grams or more, frt. adjusted gram. .07½- —
Para-aminosalicylate, fib. dms., 1,000-lb. lots or more, frt. adjusted lb 7.00 - —
smaller lots, same basis lb. 7.05 - 7.50
Phenolsulphonate, dms lb. .70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 7.10 - —
l.c.l. ..... 100 lbs. 7.60 - 7.95
feed grade, bgs. c.l., works ton. 90.00 - —
l.c.l., bgs., works ton 95 00 - —
monobasic, bgs., 10,000-lb. lots, works, frt. equald lb. .0625- —
smaller lots, same basis lb. .0675- —
tribasic, precip., NF, bgs., c.l., works 100 lbs. 7.10 - —
l.c.l., works .... 100 lbs. 7.45 - —
Phytate, bgs works lb. .28 - —
Resinate, precip., dms., frt. alld., works lb. .27¾- —
Silicate, hydrated, bgs., c.l., works., lb. .06 - —
l.c.l., works lb. .06½- —
Stearate, ctns., c.l. ..... lb. .35 - —
ton lots ..... lb. .36 - —
less ton lots ..... lb. .37 - —
Sulphate (see Gypsum)
Calcium-strontium sulphide, phosphorescent, steel pails, 100 lb to 999 lb lots, works lb. 2.60 3.50
fine particle size same basis, works lb. 2.65 3.75
Calendula flowers, bls lb .50 .65
Calomel, USP powd, dms lb. 4.02 - 4.05
Camphene, dms., incl., c.l., works. lb. .1830- .1930
l.c.l., same basis ..... lb. .1880- .2015
tanks, same basis lb. .1394- .1660
Chlorinated 67-69% (see Toxaphene).
Camphor, monobromated NF, dms. kgs lb. 3.00 3.10
natural USP powd. 100-lb lots, bbls lb. .55 - .60
tablets 1-oz. ½-oz. cs lb. .70 - .75
synthetic, tech. bbls., 10 bbls., 1,500-lb. lots ..... .55½- —
smaller lots lb. .56 - .66
USP gran. powd. bbls. 2,000-lb lots lb. .60 - —
1,000-lb. lots lb. .61 - —
smaller lots lb .62 - —
tablets, tins, 2,000-lb lots lb .93 - —
1,000-lb lots lb .94 - —
smaller lots lb. .95 - —
Canada balsam (see Fir balsam)
Canella alba bark, bls lb .25 .33
Cantharides, Chinese, cs ..... lb 1 05 1.20
powd. bxs ..... lb 1 15 1.40
Russian, bgs 2.80 3.25
powd. bxs ..... lb 2.90 3.50
Capsicum (see Pepper, red).
Oleoresin NF from domestic pepper dms lb. 4.25 5.75
from African pepper dms lb. 4.75 6.25
Caramel coloring, NF, bbls gal 1 05 1 20
Caraway seed, Dutch, bgs ..... lb. .10 - .10½
Carbazole, 97%, bbls., ton lots, works lb. 1.25 - —
steel-dms., same basis lb. 1.20 - —
Carbinol, methylisobutyl, dms., c.l., dlvd lb. .15¼- —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13½- —
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld competitive points lb. .0700- —
l.c.l., same basis lb. .0800- —
5-gal. dms., c.l. same basis lb. .0950- —
l.c.l., same basis lb. .1050- —
tankcars, same basis lb. .0490- —
Dioxide, cvls lb. .08 - —
Tetrachloride, CP, dms., works lb. .1097- .1197
NF, chys lb. .17 - .18
tech., dms., c.l., E. of Rockies, frt. alld lb. .0847- —
W. of Rockies, f.o.b. stock-points lb. .0897- —
l.c.l., E. of Rockies, frt. alld. lb. .1047- —
W. of Rockies, f.o.b. stock-points lb. .1107- —
Carbon tetrachloride, tech., tanks, E. of Rockies, frt. alld lb. .0722- —
W. of Rockies, f.o.b. stock-points lb. .0822- —
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
smaller lots, works lb. 4.10 - 4.75
Cardamom fruit, bleached, cs. lb. 3.75 - 4.10
medium, cs., afloat ..... lb. 3.30 - —
decorticated, Alleppey, cs. lb. 3.00 - 3.10
Guatemalan, cs ..... lb. 2.65 - 2.70
Mangalore type, cs ..... lb. 2.50 - 2.55
green, Alleppey, bgs ..... lb. 2.25 - 2.30
Ceylon, bgs ..... lb. 2.25 - 2.30
seed (see Cardamom fruit, decorticated).
Carmine No. 40, NF, bulk, 100 lbs. or more, dlvd lb. 5.50 - —
smaller lots, dlvd ..... lb. 5.65 - 6.15
Carotene, crystals, research grade, pure alpha or beta ampuls. 10 mg. 5.00 - —
90% beta, 10% alpha, ampuls, 100 mg. 2.00 - —
gram quantities, ampuls, gm. 5.00 - —
technical, 1,350,000 A units per gram ampuls gm. .67½- —
tins, works ..... gm. .50 - —
dry powder, 3,330 A units per gram., tins lb. .81 - —
emulsion (in milk), 600,000 A units per 16-oz can per can. 1.00 - —
in vegetable oil, 166,666 A units, per gram lb. 25.24 - —
50,000 A units per gram, cns lb. 7.86 - —
3,330 A units per gram cns lb. .85 - —
feed grade 5,000,000 to 8,000,000 A units, per lb., dms., works million units. .18 - —
Carotene, microcrystalline, in oil, 400,000 A units per gram, tins, works, million units. .30 - —
Carvol, bots. ..... lb. 7.50 - 7.75
Cascara sagrada bark, bulk ..... lb. .27 - .28
Casein, dom., acid-precip, standard, bgs., 10,000-lb lots or more, ship't point lb. .28 - .32
premium bgs., 10,000-lb. lots or more, ship't point lb. .36½- .40
imported, Argentine, acid-precip., grd., 100-bg. lots or more, ex dock lb. .21 - .23
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J. lb. .22 - —
ton lots, same basis ..lb. .23 - —
dm. lots, same basis ..lb. .25 - —
Cassia, Batavia, cuttings, bls. lb. .15 - .15½
longstick ..... lb. .18 - .18½
shortstick, bls ..... lb. .15¾- .16
China, Canton, Kwangsi rolls, select, cs. lb. .24 - .25
broken, bls. lb. .23 - —
Honan, Yunnan, scraped, bls lb. .28 Nom.
unscraped, bls. ..... lb. .27½ Nom.
Saigon, broken, bls. ..... lb. .35 - .36
medium, bls ..... lb. .38 - .49
thin, bls ..... lb. .52 - .54
Cassia, buds, bgs ..... lb. .55 - .56
Fistula, bskts ..... lb. .25 - .30
Castor beans, bgs. f.o.b. Brazilian ports long ton. 175.00-Nom.
Oil (see Oil, castor)
Pumace, bgs. c.l., works ton. 37.25 —
Castoreum, artificial, cns. ..... lb. 9.00 - 9.25
natural, cns ..... lb. 7.00 - 30.00
Catechol, CP, cryst., fib. dms., works lb. 2.17½- —
resublimed dms., works ..... lb. 4.29½- —

Cacao Butter—Cellulose Triacetate

Catnip leaves, southern, bls ..... lb 65 70
Celery seed, French, bgs. ..... lb. .38 - .38½
Indian, bgs ..... lb. .26 - .26½
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate flake, ctns., dlvd. lb. .40 - .45
extrusion compounds, translucent, metallic pearls, special black, dms., c.l., same basis lb. .52 - —
l.c.l., same basis ..lb. .53 - .59
molding, composition, translucent, metallic pearls, special black, dms., c.l., frt. alld lb. .48 - —
l.c.l., same basis lb. .49 - .55
reprocessed black, dms., l.c.l., same basis lb. .43 - .49
Acetate-butyrate, flake, 16% butyryl content, standard cartons, works lb. .64 - —
17% butyryl content, standard cartons, works lb. .54 - —
27% butyryl content, standard cartons, works lb. .64 - —
38% butyryl content, low viscosity, standard cartons, works lb. .68 - —
medium viscosity same basis lb. .54 - —
50% butyryl content, standard cartons, works, lb. .63 - —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld. lb. .64 - .71
reprocessed black, dms., l.c.l., same basis lb. .52 - .58
Triacetate, flake ctns., works, frt. alld. on 100-lb. lots or more lb. .50 - —



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Shellacol®
Quixol® Quakersol®

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Butanol	Aminohydroxy Compounds
Butyl Lactate	Riboflavin Crystals
Butyl Acetate	Hydroxylammonium Salts
Butyl Stearate	Nitroparaffins
Dibutyl Phthalate	Formaldehyde N.F.
Tributyl Phosphate	Pentaerythritol
Methanol	Acetone
Ammonia	Methylamines

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CSC
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Cerium Hydrate—Copper Sulphate, Monohydrated

Cerium hydrate, dms., works lb. 1.44 - 1.60
Oxalate, NF, bbls., bgs., works lb. No prices.
Oxide, optical grade, bgs., 50-lb. lots or more, works lb. 1.85 - 2.00
smaller lots, works lb. 1.90 - 2.10
Chalk precip., cosmetic, dentifrice, drugs, bgs., c.l. works lb. .0295- .035
t.c.l., ex whse lb. .0395- .05
paint, bgs., c.l. works ton 40.00 —
papermakers, bgs., c.l. works ton 2.50 -40.00
rubber makers, bgs., c.l. works ton 55.00 -60.00
Chamomile flowers, Hungarian and Hungarian style, cs. lb. .90 - .95
Roman, cs lb. .75 - .80
Charcoal, activated, NF, fib dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32½
smaller lots, works lb. .27 - .50
Bone (see Black, bone)
Hardwood, briquets, bgs., c.l., works ton 77.00 -88.00
bulk, c.l., works ton 70.40 - —
granular, bgs., works ton 77.00 - —
Pinewood, gran., powd., bgs., c.l., works, South ton 43.50 - —
t.c.l., works ton 43.50 -53.50
lump bgs., c.l., works, South ton 40.00 - —
t.c.l., works, South ton 50.00 -60.00
bulk, c.l., works, South ton 33.50 - —
Chestnut extract, 25% tannin, bbls., c.l., works lb. .0510- —
t.c.l., works lb. .0543- —
tanks, works lb. .0425- .0440
powd., 60% tannin, bgs., extra, c.l., works lb. .1092- —
t.c.l., works lb. .1165- —
Chloral, tech., 94% min., dms., c.l., works lb. .23 - —
t.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Chloral hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.30 - —
500-lb. lots lb. 1.33 - —
100-lb. lots or less lb. 1.35 - 1.40
Chloramine T, NF, bbls., works lb. .75 - 1.00
Chlordane, agricultural, dms., pails, c.l., frt. alld lb. .65 - —
t.c.l., frt. alld lb. .66 - .73
refined, dms., c.l., frt. alld lb. .75 - —
t.c.l., frt. alld lb. .76 - .83
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .14 - —
t.c.l. lb. .14¾- —
70%, dms., c.l., same basis lb. .18 - —
t.c.l., same basis lb. .19 - —
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
t.c.l., works lb. .57 - —
125, 1,000 cps., ctns., c.l., works lb. .60 - —
t.c.l., works lb. .61 - .62
Chlorine, liquid, cyls., c.l. lb. .08¾- —
t.c.l., N.Y., stock points lb. .10¼- —
tanks, single units, works, frt. equald 100 lbs. 2.70 - —
W. of Rockies 100 lbs. 2.82½- —
multiple units, 3 cars, works, frt. equald 100 lbs 3.10 - —
3 cars, same basis 100 lbs 3.80 - —
1 car, same basis 100 lbs 4.46 - —
Chloroform, tech, dms., c.l. dlvd. E lb. .18 - .182
t.c.l., same basis lb. .192 - .20
tanks, same basis lb. .17 - .171
USP, dms. lb .30 - .35
Chloro(4)-2-Toluidine, bbls lb 1.38 - —
Chlorophyll, oil soluble 4%, not fixed, tins, pails, works lb. 4.25 - —
copper fixed, 6½%, tins, pails, works lb. 4.25 - —
Chlorophyll, oil soluble, sodium-copper, dms., pails, aqueous sol., 4%, works lb. 3.75 - —
8%, pails, dms., works lb. 4.00 - 4.80
14%, dms, works lb. 8.90 - —
concentrated, dom., 50%, dms., works, basis 100% lb. 56.50 -60.00
75%, dms., works, basis 100% lb. 60.00 - —
90%-100%, dms., works, basis 100% lb. 60.00 -67.00
imported, 60%, dms., basis 100% lb. 60.00 - —
75%, dms, basis 100% lb. 60.00 - —
90%, dms., basis 100% lb. 60.00 - —
Chloropicrin, com'l, bots lb. 1.50 - —
cyls., 180 lbs., frt. alld lb. .95 - —
100 lbs. same basis lb. .97 - —
25 lbs., same basis lb. 1.22 - —
Cholesterol, USP, fib. dms., 100-lb. lots lb. 8.80 - 9.50
5-lb pkg. lb. 9.00 -10.50
1-lb. pkg. lb. 9.50 -10.50
Choline bitartrate, fib. dms., frt. adjusted lb. 1.70 - 1.95
Chloride fib dms. same basis lb 1.70 - 1.95
Dihydrogen citrate, fib dms., same basis lb 1.70 - 1.95
Chromium acetate powd. 72% Cr., bbls., works lb. No stocks.
solut., 7½% bbls. works lb. .08½ - —
cbys. works lb. .10¼- —
8½%, bbls. works lb. .09 - —
cbys. works lb. .10¾- —
Fluoride, bbls., works lb .44½- —
Green (see Green, chrome).
Oxide (see Green, chromium oxide)
Oleate, solid, bbls lb. .49 - —
Trioxide, NF bots lb. .82 - .89
Yellow, (see Yellow, chrome).
Chrysarobin, USP, bots. lb. 6.50 - 8.00
Cinchona bark, NF, red, broken, bgs lb .28 - .30
yellow, broken, bgs lb .28 - .30
Cinchonidine, cryst., cns. 100 oz.-lots oz. .71 - .72
Sulphate, cns., 100 oz.-lots oz. .37 - .40½
Cinchonine, cryst., cns., 100 oz.-lots, oz. .52 - .57
Sulphate, NF, cns., 100 oz.-lots oz. .27 - .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05
standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic)
Aldehyde, NF cns., dms lb 1.05 - 1.30
Cinnamon, Ceylon, No. 2, bls. lb. .25 - —
Citral, bots., cns lb. 3.40 - 3.75
Citronellal, bots., dms lb. 1.65 - 2.00
Citronellol, bots., dms lb. 2.05 - 2.45
Civet, artificial, bots lb 13.75 -15.00
natural, bots oz 3.50 7.00
Clay, ball dom. crushed, bulk, Tennessee ton. 10.00 -12.00
airfloated, bgs. c.l., Tennessee ton 19.50 - —
purified, bgs. c.l., Tennessee ton. 20.50 —
imported, lump, bulk, Atlantic port long ton. 27.00 -30.00
airfloated, bgs. c.l. Atlantic port, long ton. 43.00 -45.00
pulverized, bgs., t.c.l., all ports ton. 55.00 —
97%, 200 mesh, bgs. c.l. Georgia ton. 54.00 -56.00
China, dom., dry-grd., air-float 99%, 300 mesh bgs. c.l. works ton 11.50 - 14.50
t.c.l., works ton. 35.30 - —
bulk, c.l., works ton 8.50 -11.50
200 mesh bgs., c.l., works ton. 13.50 - 17.00
imported, white, lump, bulk, c.l., ex dock, Phila., Portland, Me gross ton. 20.00 - 40.00
powd. bgs. c.l., ex dock net ton. 50.00 —
t.c.l., ex whse net ton 60.00 -65.00
Clove, Madgascar, bls. lb. 1.50 - —
Zanzibar bls. lb. 1.50 - —
Clover tops, red, bgs lb .45 - .50
CMC, purified high vis., (see Gum, cellulose).
standard low vis. bgs. 23,000 lbs or over, works, frt alld lb .60 - —
smaller lots, same basis lb. .62 - —
medium vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .57 - —
smaller lots, same basis lb. .59 - —
technical high vis., 58% purity, bgs., 20,000 lbs. or more, dlvd. E., 100% basis lb. .56 - —
2,000 to 20,000 lbs. dlvd. E lb. .58 - —
less than 2,000 lbs., dlvd. E. lb. .62 - —
low vis., 62% purity, bgs or lib. dms. c.l. dlvd E. basis 100% lb. .46 - .47
t.c.l. dlvd E. basis 100% lb. .48 - .49
58% purity, bgs., c.l., dlvd. E. basis net weight lb. .34 - —
t.c.l., dlvd E lb. .36 - —
47½% purity, bgs., c.l. dlvd., E., basis 100% lb. .46 - —
t.c.l., dlvd E lb. .48 - —
36½% purity, bgs., c.l., dlvd. E., basis net weight lb. .18½- —
t.c.l. dlvd E lb .20 - —

Prices for technical grades of CMC West of the Rocky Mountains are 1c. per pound less than delivered prices.

Coaltar, coal gas, water gas, crude, resale dms. c.l., ex-whse. gal. .24 - .27½
t.c.l. ex whse gal. .26 - .28½
tanks, ex whse gal. .14 - .15
refd. resale dms. c.l., ex-whse gal. .25 - .28½
t.c.l. ex-whse gal. .27 - .29½
tanks, ex-whse gal. .15 - .16
Cobalt acetate 23.7% bbls., dlvd lb. 1.14¾- —
Carbonate, 48% powd., bgs., dlvd lb. 1.92¼- —
Chloride 24.2% Co. kgs., dlvd., lb. 1.10½- —
Hydrate, 60-61% Co., bbls., dlvd. lb. 2.52 - —
Linoleate, fused, 8½% Co., dms. lb. .64½- —
liquid, 6% Co., dms lb. .53¼- —
Metal, 97.99% kgs., ex-whses lb. 2.40 - —
Naphthenate, liq., 6% Co., dms., lb. .42¾- —
Nitrate, 20.1% Co., bbls., dlvd lb. .29¼- —
Oxide, black 70-71% Co. kgs lb. 1.76 —
Phosphate, powdered, 32.1% Co., kgs., dlvd lb. 1.57¾- —
Resinate, fused, 3% Co., dms lb. .27 - —
Sulphate, cryst., 21% Co., dms., dlvd lb. .81¾- —
monohydrated, 33% Co., dms. dlvd lb. 1.28½- —
Cocaine, USP, cns., 100-oz. lots oz. 15.00 - —
Hydrochloride, cns. 100-oz. lots oz. 11.75 - —
Cochineal, USP gray, bgs lb. .58 - .90
Cocillana bark, bgs lb. .16 - .17
Cocoa butter, bgs lb. .67 - —
Codeine, NF, cns 100-oz. lots oz. 13.25 - —
Hydrochloride, cns., 100-oz. lots oz. 11.75 - —
Phosphate, USP, cns., 100-oz. lots oz. 10.25 - —
Sulphate, USP, cns., 100-oz. lots oz. 10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .22 - .25
Blue, bls lb. .17 - .18
Colchicine, USP, bots., cns. oz. 65.00 -70.00
Colchicum root, bls lb. .45 - .60
Seed, bgs lb. .80 - 1.10
Collodion, USP, dms lb. .32½- —
flexible, USP, dms lb. .34 - —
Colocynth pulp, bls lb. .30 - .35
Colombo root, bls., to arrive lb. .22 - —
Coltsfoot leaves, bgs lb. .25 - .30
Condurango bark, bgs lb. .17 - .18
Copaiba balsam, cns., dms lb. 1.05 - 1.75
Copper acetate, bbls., c.l. works lb. .34¾- —
t.c.l., works lb. .35¾- —
Carbonate 55%, bgs., works lb. .22 - .23¼
Chloride, anhyd., bbls., works lb. .34½- —
crystals, bbls., works lb. .22¾- —
Citrate USP 5-lb bots oz. 2.40 - —
Cyanide, tech., bbls., over 1,000-lb. lots or more lb. .613 - —
less than 1,000 lbs. lb. .633 - —
Gluconate cns., dms lb. 3.00 - 3.24
Hydrate dms. frt. alld E. Miss. lb. .36 - .36½
Metal, electrolytic lb. .24½ - .27½
Naphthenate, liquid, 8% Cu, dms., frt. alld lb. .22¾- —
Nitrate, tech., cryst., bbls., works, lb. .25¼- —
Oleate, solid, 9% Cu, dms., works, lb. .45 - —
Oxide, black, bbls., works lb. .39 - .40
red, com'l, bbls., c.l., works lb. .43 - .45¼
t.c.l., works lb. .44 - .45½
Oxychloride-sulphate, bgs., frt. alld lb. 24¼ Nom.
Quinolinalate, 5lb. dms. lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld lb. 27½ - —
Stearate, ton lots, works lb. .38½ - .39½
less ton lots, works lb. .40½ - —
Sulphate, cryst., 99%, bgs., c.l., works 100 lbs. 8.95 - 9.35
t.c.l. 100 lbs 9.20 - 10.95
CP, cryst., gran., bbls., works lb 16.15 - —
monohydrated, 35%, dms., c.l., works 100 lbs. 14.95 - 15.50

BULK PHARMACEUTICALS
PLANT HORMONES INTERMEDIATES

Conforming to Your Most Exacting Specifications

Acetyl Carbromal

A-Naphthalene Acetic Acid and Sodium Salts

Barbital, Seco, Sodium

Benzalkonium Chloride, U.S.P.

Benzonaphthol, N.N.R. (Beta Naphthol Benzoate)

Beta Naphthoxy Acetic Acid

Bromo Isovalerylurea, N.N.R. (Bromural)

Carbromal, N.F.

Copper Undecylenate

4,7-Dichloro Quinoline

Diphenyl Hydantoin, Sodium, U.S.P. or Base

Diphenyl Methyl Bromide (Benzhydryl Bromide)

Hexamethonium Compounds

Iso Valeric Acid

Mephenesin, N.N.R.

Methyl Thiouracil

Naphthol, A.S.G.

Normal Valeric Acid

Phenetsal, N.N.R.

Phosphorus Tribromide

2,4,5-Trichlor Phenoxy Acetic Acid

2,4,5-Trichlor Phenoxy Propionic Acid

Valerates

Zinc Caprylate

Your Inquiries for these and other products are invited. Our facilities and services are available for contract manufacturing on a confidential basis.

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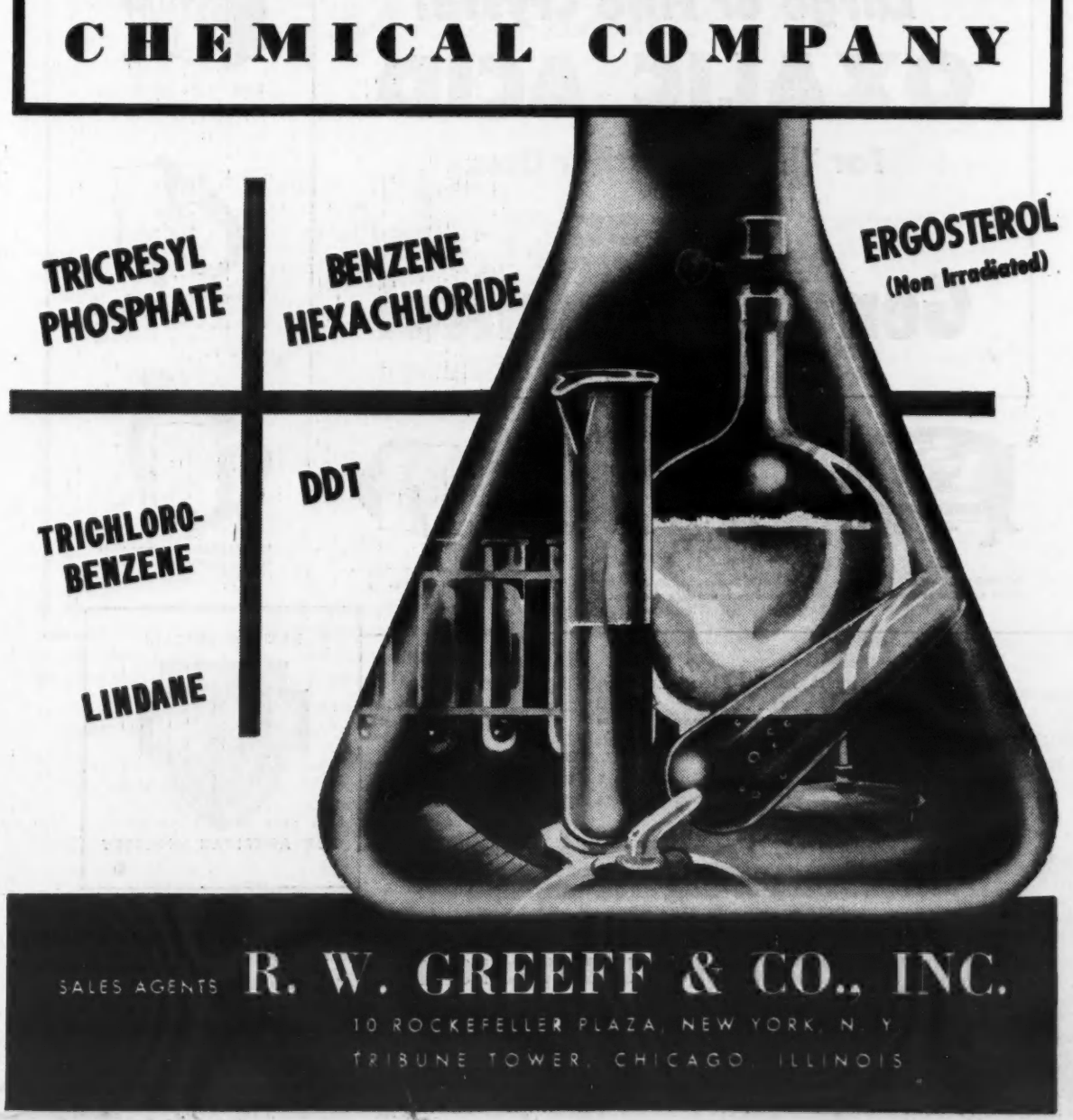
Copper sulphate, tribasic, dealers, bgs., c.l., works, frt. alld ..
100 lbs. 25.60 - —
l.c.l., works ..... 100 lbs. 27.10 - —
USP, gran., cryst., dms ..... lb. .1615- .2500
Undecylenate, dms. ..... lb. 2.90 - 3.00
Copperas, gran., bgs., c.l., works ..
ton. 28.50 - —
l.c.l., dlvd. Metro area . 100 lbs. 3.00 - —
bbls., c.l., works ..... ton. 34.00 - —
bulk c.l., works ..... ton. 21.00 - —
Copra, Atlantic Gulf ports, c.i.f. ton. 185.00 - —
Pacific ports, c.i.f. ..... ton. 180.00 - —
Coriander seed, Argentine, bgs .. lb. .08½- .09
Czech, bgs ..... lb. .07 - .07½
Moroccan, bgs. ..... lb. .06 - .06½
Roumanian, bgs ..... lb. .07½- .08
Corn sugar tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.45 - —
Syrup, 42°, dms., c.l. ..... 100 lbs. 7.47 - —
l.c.l. ..... 100 lbs. 7.62 - —
Cornsilk, bls ..... lb. .12 - .14
Corrosive sublimate, NF, cryst., dms., 50-lb. lots or more lb. 3.68 - —
gran. powd., dms., 50-lb. lots or more . lb. 3.53 - —
Cottonroot bark, bls ..... lb. .26 - .28
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton. 1.50 - —
Meal, 41% protein, sacked, Memphis . ton. 80.00 Nom.
Coumarin, cryst., NF, cns ..... lb. 2.94 - 3.15
powd., cans ..... lb. 3.20 - 3.25
Cramp bark, NF, bls ..... lb 80 .90
Cranesbill root, bls ..... lb. .40 - .41
Cream of tartar, NF, dom., gran. or powd., dms ..... lb. .34½- —
bbls., 5,000 lbs. one shipment . lb. .35 - —
smaller lots, bbls., kgs. lb. .35½- .38½
imported, kgs ..... lb. .27¾- —
Creosote carbonate, NF, bots., cbys. lb. 2.80 - 2.90
Coaltar, crude, tanks, works, frt. adjusted gal. .20 - —
solution, 80%, tanks, works, gal. .188 - —
refined, dms., c.l., works gal. .35 - —
l.c.l., same basis ..... gal. .41 - —
tanks, same basis ..... gal. .27 - —
Wood, beechwood, cbys., dms. lb. 1.35 - 1.40
hardwood, bots., cbys ..... lb. 1.05 - 1.10
pinewood, dms ..... gal. .31 - .32
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, dms., c.l., frt. equald.. lb. .158 - —
l.c.l., same basis ..... lb. .161 - —
ret. dms., c.l., same basis. lb. .155 - —
l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .145 - —
USP, non-ret. dms., c.l., same basis . lb. .168 - —
l.c.l., same basis ..... lb. .171 - —
ret. dms., c.l., same basis .... lb. .16½- —
l.c.l., same basis ..... lb. .17 - —
tanks, same basis ..... lb. .153 - —
Crotonaldehyde, 91-93%, l.c.l., works. lb. .24¼- .25
Cryolite, nat., industrial, bgs., c.l., works . 100 lbs. 10.50 - —
l.c.l., works ..... 100 lbs. 11.25 - 11.50
Insecticide, dealers, bgs., c.l., dlvd . 100 lbs. 15.25 - —
l.c.l., dlvd. ..... 100 lbs. 16.25 - —
Cube root, powd., 5% rotenone, bgs., works . lb. .23 - .25
Cubeb berries, XX NF, bgs .... lb. .45 - .52
powd., cs ..... lb. .55 - .60
Culvers root, bbls ..... lb. .60 - .61
Cumene, dms., c.l., works ..... lb. .12 - —
l.c.l., works ..... lb. .14 - —
tanks, works ..... lb. .11 - —
Cumin seed, Iranian, bgs ..... lb. .16 - .16½
Moroccan, bgs. ..... lb. .18 Nom.
Syrian, bgs ..... lb. .17 - .17½
Cutch extract, 55% tannin, bgs., ex dock, duty extra . lb. .08¼- —
Cyanamide, fertilizer mixing grades, 20.6% N, gran, bgs., Niagara Falls, Ont., contract ton. 62.50 - —
pulv., 21% N, bgs., works . unit ton. 2.90 - —
Cyclohexane, tech., 95%, dms., c.l., dlvd . lb. .11 - —
l.c.l., dlvd. ..... lo. .11¾- —
tanks, dlvd. ..... lb. .09¼- —
Cyclohexanol, tech., dms., c.l., works, frt. alld. E .. lb. .24¼- .37¾
l.c.l., works, same basis . lb. .25¼- .38¼
tanks, works, same basis . lb. .23¼- .36¼
Cyclohexanone, tech., dms., c.l. . lb. .26½- .30
l.c.l., works ..... lb. .27 - .31
tanks, works ..... lb. .25 - .29
Cyclohexylamine, dms., c.l., works. lb. .41½- —
l.c.l., works ..... lb. .42½- —
tanks, works ..... lb. .40 - —
Cyclopropane, CP, 2 lb. cyls., works. cyl. 48.00 - —
6 oz. cyls., works ..... cyl. 12.00 - —
USP, hospitals, cyls., 40 gal. lots. gal. .38 - —
100-gal. lots ..... gal. .37 - —
200-gal. lots ..... gal. .36 - —

D

2, 4-D bbls., c.l., works, frt. equald. lb. .61 - —
l.c.l., same basis ..... lb. .67 - —
Isopropyl ester, dms., c.l., works. lb. .67 - —
l.c.l., works ..... lb. .72 - .74
Damiana leaves, bls ..... lb. .28 - .30
Dandelion root, bls ..... lb. .45 - .50
DDD, tech., fine grd. flb. dms., c.l., works . lb. .60 - —
l.c.l., works ..... lb. .61 - —
DDT, fiber dms., c.l., works, frt. equald . lb. .32 - .33
smaller lots, same basis . lb. .35 - .36
Decanol, normal, tech., dms., c.l., dlvd . lb. .419 - —
l.c.l., dlvd ..... lb. .439 - —
tanks, dlvd ..... lb. .394 - —
Deertongue leaves, bls ..... lb. .42 - .43
Defluorinated phosphate, 12% P. paper bgs., works .... ton. 49.25 - —
18½% P. paper bgs., works ton. 62.75 - 63.75
Rock, 14½% P. paper bgs., works . ton. 50.00 - —
Degras, common, bbls ..... lb. .11 - .12
crude, centrifugal, bbls ..... lb. .18 - .20
neutral, less 2% ffa, bbls ..... lb. .30½- —
over 2% ffa., bbls ..... lb. .30 - —
Derris root, 5% rotenone powd., bbls lb. .32 - .35
Desoxyepnedrine hydrochloride, dextro, bots . lb. 25.00 - —
dextro-laevo, bots ..... lb. 7.50 - —
Dextrin, corn, gum, paper bgs., c.l., N.Y. . 100 lbs. 9.10 - —
l.c.l. ..... 100 lbs. 9.25 - —
canary, paper bgs., c.l. ... 100 lbs. 8.84 - —
l.c.l. ..... 100 lbs. 8.99 - —
dark, paper bgs., c.l. .... 100 lbs. 8.94 - —
l.c.l. ..... 100 lbs. 9.09 - —
white, paper bgs., c.l. .... 100 lbs. 8.68 - —
l.c.l. ..... 100 lbs. 8.83 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs ..... lb. .10¼- .11
Dextrose, USP, dms ..... lb. .17¾- —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots .... lb. 4.50 - 4.60
laboratory grade, bots 100 grams. 4.50 - —
tech., bots., works ..... lb. 3.00 - —
Diamyl ether (see Ether, amyl).
Phthalate, dms., c.l., dlvd. E .... lb. No prices.
l.c.l., dlvd. E ..... lb. No prices.
tanks, dlvd. E ..... lb. No prices.
Dianisidin, dms ..... lb. 1.90 —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast . ton. 52.00 -55.00
California ..... ton. 42.00 -45.00
l.c.l., ex whse ..... ton. 85.00 -90.00
purified, bgs., c.l., Atlantic coast . ton. 65.00 - —
California ..... ton. 53.00 - —
l.c.l., ex whse ..... ton. 95.00 -100.00
Atlantic coast ..... ton. 95.00 -100.00
Mexican, white, bgs., c.l., Atlantic coast . lb. .03 - —
l.c.l., Atlantic coast . lb. .06 - —
Dibenzyl sebacate, CP, dms., c.l., works . lb. .92 - —
l.c.l., works ..... lb. .93¾- —
tanks, works ..... lb. .91 - —
Dibutyl phthalate, dms., c.l., dlvd., E . lb. .35¾- —
l.c.l., same basis ..... lb. .36¾- —
tanks, same basis ..... lb. .34 - .34½
Sebacate, CP, dms., c.l., works. lb. .92 - —
l.c.l., works ..... lb. .93 - —
tanks, works ..... lb. .90¼- —
tech., dms., c.l., works ..... lb. .90 - —
l.c.l., works ..... lb. .91 - —
tanks, works ..... lb. .88¼- —
Tartarate, dms., works, frt. alld. lb. .71 - —
Dibutylamine, dms., c.l., frt. alld. E. of Rockies . lb. .54¾- —
l.c.l., same basis ..... lb. .55¾- —
tanks, same basis ..... lb. .53 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .36¾- .38¾
l.c.l., dlvd ..... lb. .37 - .39¾
tanks, dlvd ..... lb. .35 - .37
Sebacate, dms., c.l., works... lb. .78½- —
l.c.l., works ..... lb. .79½- —
tanks, works ..... lb. .76¾- —
Dichloroaniln, dms., works .... lb. .75 .83
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichloropentanes, dms., c.l., works. lb. .05 - —
l.c.l., works ..... lb. .05¾- —
tanks, works ..... lb. .04¼- —
Dicyclohexylamine, dms., c.l., works. lb. 46 - —
l.c.l., works ..... lb. .46¾ —
tanks, works ..... lb. .44½ - —
Dicyclohexylphthalate, flb dms., c.l., works . lb. .60 - —
l.c.l., same basis ..... lb. .61 - —
Dieldrin, dms., frt. alld ..... lb. 2.60 - —
l.c.l., frt. alld ..... lb. 3.04 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .29¼- —
l.c.l., same basis ..... lb. .30¼ —
tanks, same basis ..... lb. .27½ —
Diethyl carbonate, dms., c.l., frt. alld . lb. 46¾ —
l.c.l., same basis ..... lb. 47¾ —
tanks, same basis ..... lb. 45 —
Maleate, dms., c.l., dlvd ..... lb. .50 - —
l.c.l., dlvd ..... lb. 48¼- —
tanks, dlvd ..... lb. 48½ - —
Oxalate, dms., c.l., frt. alld .... lb. .41½- —
l.c.l. same basis ..... lb. 42¾ —
tanks, same basis ..... lb. 40 —
Phthalate, dms., c.l., dlvd ..... lb. .31¼- —
l.c.l. dlvd ..... lb. .32¼- —
tanks, dlvd ..... lb. .29½- —
Diethyl sulphate, dms., c.l., works. lb. .18¾- —
l.c.l. works ..... lb. .19¼- —
tanks, works ..... lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .54½- —
l.c.l., same basis ..... lb. .55½- —
tanks, same basis ..... lb. .52½- —
Diethylanilin dms ..... lb. 48 - —
Diethyleneglycol, dms., c.l. dlvd. E. lb. .20¼- —
l.c.l. same basis ..... lb. .21¼- —
tanks, same basis ..... lb. .18½- —
Boriborate, dms., l.c.l ..... lb. .30½- —
Diethylether, dms. c.l., works lb. 46½- —
l.c.l., works ..... lb. 47 - —
Monobutylether, dms., c.l., works. lb. .28¾- —
l.c.l., works ..... lb. .29¼- —
tanks, works ..... lb. .27 - —
Monobutylether acetate dms., c.l., works lb. .30 - —
l.c.l., works ..... lb. .30½ —
Monoethylether, dms., c.l., dlvd. lb. .20¾- —
l.c.l., dlvd ..... lb. .21½- —
tanks, dlvd ..... lb. .19½- —
Monoethylether acetate, dms., c.l., works lb. 28¾ —
l.c.l., works ..... lb. 27¼ —
Monomethylether, dms., c.l., works. lb. .24¾- —
l.c.l., works ..... lb. 25¼ —
tanks, works ..... lb. 23¼ —
Diethylenetriamine dms., c.l., dlvd E. lb. .43 - —
l.c.l., same basis ..... lb. .44 - —
tanks, same basis ..... lb. .41½- —
Diethylethanolamine, dms. c.l., dlvd lb. .67½- —
l.c.l., same basis ..... lb. .68½ —
tanks, same basis ..... lb. .65¾ —

MONTROSE
CHEMICAL COMPANY



SALES AGENTS R. W. GREEFF & CO., INC.
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TRIBUNE TOWER, CHICAGO, ILLINOIS

Diethylstilbestrol—Dyes, Coaltar, General Use, No. 922

Diethylstilbestrol, USP, bots., 10-kilo lots	kilo.	115.00	-150.00
1 kilo lot	kilo.	135.00	-150.00
Digitalis leaves, USP, dom., dms.	lb.	1.10	- 1.15
Digitoxin, USP, bots	gram.	7.00	- 8.00
Diglycol laurate, dms	lb.	.30½	- .34
Oleate, dms	lb.	.28½	- .29½
Stearate, dms	lb.	.25	- .26½
Dihexyl sebacate, dms., c.l., works.	lb.	.76½	—
l.c.l. works	lb.	.77½	—
tanks, works	lb.	.74¾	—
Dihydrazine sulphate, dms., works	lb.	1.10	- 1.25
Dihydrostreptomycin, either hydrochloride or sulphate, bulk.	gram.	.24	- —
Dihydroxydichlorodiphenylmethane, pure dms	lb.	2.80	3.00
tech., dms	lb.	1.15	1.25
Di-isobutyl ketone, dms., c.l., dlvd.	lb.	.15¼	—
l.c.l., dlvd	lb.	.16¼	—
tanks, dlvd	lb.	.13½	—
Phthalate, dms., c.l., dlvd. E	lb.	.34¾	—
l.c.l dlvd. E	lb.	.35¾	—
tanks, dlvd., E	lb.	.33	- —
Di-isobutylene, dms., c.l., works	lb.	.09½	—
l.c.l., works	lb.	.10	- —
tanks, works	lb.	.07½	—
Di-iso-octyl phthalate, dms., c.l., dlvd	lb.	.38¾	—
l.c.l., same basis	lb.	.39¾	—
tanks, same basis	lb.	.37	- —
Di-isopropylamine, dms., c.l., dlvd. E of Rockies	lb.	.49¾	—
l.c.l., same basis	lb.	.50¾	—
tanks, same basis	lb.	.48	- —
Dillseed, dewhiskered, bgs	lb.	.12½	- .13
natural, bgs	lb.	.11	- .11½
Dimethyl anthranilate, cns	lb.	5.50	5.90
Chloroacetal, dms., c.l., works	lb.	.53	- —
l.c.l., works	lb.	.55	- —
tanks, works	lb.	.51	- —
Dimethyl hydroquinone, dms	lb.	2.25	- 2.75
Phthalate, dms., c.l., dlvd	lb.	.29¼	—
l.c.l., dlvd	lb.	.30¼	—
tanks, dlvd	lb.	.27½	—
Sebacate, dms., c.l., works	lb.	1.31¾	—
l.c.l., works	lb.	1.32¾	—
tanks, works	lb.	1.30	- —
Sulphate, 55-gal. ret. dms., c.l., works	lb.	.18	- —
l.c.l., works	lb.	.16	- —
10-gal. ret dms., works	lb.	.16½	—
Dimethylamine 25-40%, dms., c.l., works, basis 100%	lb.	.37	.38
l.c.l., works basis 100%	lb.	.37½	.38¼
tanks, works, basis, 100%	lb.	.33	- —
Dimethylanilin, dms., c.l., frt. alld.	lb.	.26	- —
l.c.l. frt. alld	lb.	.27	- —
tanks, frt. allo	lb.	.25	- —
Dimethylethanolamine, anhydrous, dms., c.l., dlvd	lb.	1.43	- —
l.c.l., dlvd	lb.	1.45	- —
tanks, dlvd.	lb.	1.40	- —
70%, dms., c.l., dlvd., basis 100%.	lb.	.54	- —
l.c.l., dlvd.	lb.	.55	- —
tanks, dlvd.	lb.	.52¼	- —
Dimethylformamide, dms., works	lb.	.37	- —
tanks, works	lb.	.34	- —
Dinitroanilin dms. frt equald	lb.	.57	- —
Dinitrobenzene, crude dms	lb.	.20	- —
purified, dms.	lb.	.22	- —
Dinitrochlorobenzene, dms., c.l., frt. alld. E	lb.	.15¼	—
l.c.l., frt. alld. E	lb.	.15¾	—
tanks, frt. allo. E	lb.	.15	- —
Dinitrophenol, bbls.	lb.	.34	- —
Dinitrotoluene, oily, dms.	lb.	.10	- —
refd., dms.	lb.	.21	- —
Dioctyl adipate, dms., c.l., works	lb.	.44¾	—
l.c.l., works	lb.	.45¾	—
tanks, works	lb.	.43	- —
Phthalate, dms., c.l., frt. allo	lb.	.38¾	- .41¾
l.c.l. frt. allo	lb.	.39¾	- .42¾
tanks, frt. allo	lb.	.37	- .40
Diorthotolylguanidin, dms., ton lots, dlvd	lb.	.54	- —
smaller lots, dlvd	lb.	.55	- —
Dioxane, dms., c.l., works	lb.	.28¾	—
l.c.l., same basis	lb.	.29¼	—
tanks, same basis	lb.	.27	- —
Dip oil (see Tar acid oil).			
Dipentaerythritol, bgs., c.l., works,	lb.	.34	- —
l.c.l., works	lb.	.37	- —
Dipentene, dest-dist., dms., extra, c.l., works	gal.	.49	- —
l.c.l., works	gal.	.50	- —
whse.	gal.	.68	- —
steam-dist., dms., c.l., works, South	gal.	.60	- —
l.c.l., works South	gal.	.69	- —
dlvd. N. Y.	lb.	.83	- —
Diphenyl, bbls. c.l., works	lb.	.15	- —
l.c.l., works	lb.	.16	- .20
Oxide, perfume grade, cns	lb.	.54	- .65
Phthalate, dms., c.l., works	lb.	.51¾	—
l.c.l., same basis	lb.	.53¾	—
Diphenylamine, refined, gran., bbls., c.l., works	lb.	.28	- —
l.c.l., works	lb.	.30	- —
tanks, works	lb.	.25	- —
tech, tanks, works	lb.	.24	- —
Diphenylguanidin, dms., ton lots	lb.	.44½	—
smaller lots	lb.	.45½	—
Diphenylhydantoin-sodium, USP, dms.	lb.	5.30	- 5.60
Dipropyleneglycol, dms., c.l., frt. allo	lb.	.16¾	- .17
l.c.l., same basis	lb.	.17¾	- .18
tanks, same basis	lb.	.15	- —
Methylether, dms., c.l., dlvd. E	lb.	.20¾	—
l.c.l., same basis	lb.	.21¾	—
tanks, same basis	lb.	.19¼	—
Di-secondary-amylphenol, dms., c.l., works	lb.	.30¼	—
l.c.l., works	lb.	.33¼	—
tanks, works	lb.	.28¼	—
Di-tertiary-amylphenol, dms., c.l., works	lb.	.30¼	—
l.c.l., works	lb.	.33¼	—
tanks, works	lb.	.28¼	—
Di-tertiary-butylmetacresol, dms., c.l., works	lb.	.31	- —
l.c.l. works	lb.	.32	- —
tanks, works	lb.	.30	- —
Di-tertiary butylparacresol, dms., c.l., works	lb.	.91	- —
l.c.l., works	lb.	.95	- —
Divi-divi, 45% tannin bgs., bls., c.l., U.S. ports, exdock	ton.	70.00	-72.00
Divinylbenzene 30-25%, dms., c.l., works	lb.	.20	- —
l.c.l., works	lb.	.21	- —
tanks, works	lb.	.19	- —
40-50%, basis 100%, dms., c.l., works	lb.	1.00	- —
l.c.l., works	lb.	1.15	- —
Dodecylbenzene, dms., c.l., works	lb.	.16	- —
l.c.l., works	lb.	.17	- —
tanks, works	lb.	.13½	—
Doggrass root, dom., cut, bls	lb.	.26	.28
imp., cut, bls	lb.	.28	.35
Dogwood bark, Jamaica, bls	lb.	11	-.13
Dragon's blood, mass, cs	lb.	1.25	1.30
reeds, cs.	lb.	1.40	1.45

Dyes, coaltar, certified colors for food drugs and cosmetics, 5-lb and 1-lb lots dlvd:—

Blue, FD&C, No. 1, cns	lb	17.00	-17.60
No. 2, cns	lb	17.00	-17.60
Green FD&C, No. 1, cns	lb	17.00	-17.60
No. 2, cns	lb	22.20	-22.85
No. 3, cns	lb	35.25	-35.90
Orange, FD&C, No. 1, cns	lb	3.65	3.75
No. 2, cns	lb	4.65	4.75
Red, FD&C, No. 1, cns	lb	7.55	7.85
No. 2, cns	lb	4.00	4.10
No. 3, cns	lb	22.20	-22.85
No. 4, cns	lb	7.20	7.50
No. 32, cns	lb	5.30	5.40
Violet, FD&C, No. 1, cns	lb	17.00	-17.60
Yellow, FD&C, No. 1, cns	lb	10.50	-11.05
No. 3, cns	lb	3.30	3.40
No. 4, cns	lb	3.30	3.40
No. 5 cns	lb	4.00	4.10
No. 6, cns	lb	4.00	4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb lots, dlvd.:—

Black, D&C, No. 1, cns	lb.	10.95	- —
Blue, D&C, No. 4, cns	lb.	13.55	- —
Brown, D&C, No. 1, cns	lb.	16.10	- —
Green, D&C, No. 5, cns	lb.	16.10	- —
No. 6, cns	lb.	16.10	- —
No. 7, cns	lb.	14.80	- —
Orange, D&C, No. 3, cns	lb.	10.95	- —
No. 4, cns	lb.	20.05	- —
No. 5, cns	lb	5.70	- —
No. 10, cns	lb.	20.70	- —
Red, D & C, No. 4, cns	lb.	3.75	- —
No. 9, cns	lb.	3.75	- —
No. 10, cns	lb.	3.00	- —
No 11, cns	lb.	2.25	- —
No. 12, cns	lb.	5.00	- —
No. 17, cns	lb.	10.65	- —
No. 18, cns	lb	24.00	- —
No. 19, cns	lb.	20.05	- —
No. 21, cns	lb	4.70	- —
No. 22, cns	lb.	10.95	- —
No. 28, cns	lb.	24.65	- —
No. 33 cns	lb.	17.45	- —
Violet, D&C, No. 2, cns	lb.	16.10	- —
Yellow, D&C No. 7, cns	lb.	10.95	- —
No. 8, cns	lb.	10.95	- —
No. 10, cns	lb.	13.50	- —
No. 11, cns	lb.	13.50	- —

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—

Blue, Ext., D&C, No. 1, cns	lb.	16.10	- —
Green, Ext., D&C, No. 1, cns	lb.	16.10	- —
red, Ext., D&C, No. 1, cns	lb.	13.50	- —
Yellow, Ext. D&C, No. 1, cns	lb.	10.95	- —
20 Orange AD	lb.	.64	- —
27 Fast light orange 2G	lb.	.78	- —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).

31 Phloxine 2G	lb.	.64	- —
36 Alizarine yellow 2G	lb.	.83	- —
40 Orange B extra, conc	lb.	1.06	- —
57 Fuchsine 6B	lb.	.57	- —
79 Scarlet 2R	lb.	.74	- —
151 Orange Y	lb.	.47	- —
161 Orange RR	lb.	.55	- —
176 Fast red A, conc	lb.	.90	- —
179 Azo rubine XX, conc	lb.	1.04	- —
180 Blue F4B	lb.	.92	- —
185 Brilliant scarlet 3RN, conc.	lb.	.83	- —
202 Chrome blue black, conc	lb.	.68	- —
203 Chrome black T	lb.	.71	- —
208 Fast blue SR	lb.	.91	- —
216 Chrome red B	lb.	.84	- —
234 Resorcin brown	lb.	.89	- —
246 Blue black, extra, conc	lb.	.86	- —
275 Milling red 3R, conc	lb.	2.03	- —
289 Navy blue 3R, conc., 125%	lb.	1.09	- —
299 Black F, conc	lb.	1.40	- —
304 Neutral black 2B, conc., 200%	lb.	2.01	- —
326 Fast scarlet 4BNC	lb.	1.64	- —
332 Bismarck brown RX, conc.	lb.	.86	- —
365 Brilliant yellow, conc	lb.	2.34	- —
382 Scarlet B	lb.	1.65	- —
401 Diazo black, BHD	lb.	.63	- —
406 Blue 2B extra, conc	lb.	1.07	- —
419 Diamine fast red FC	lb.	1.12	- —
420 Diamine brown M	lb.	.90	- —
448 Benzo purpurine 4B, conc.	lb.	1.18	- —
516 Diamine sky blue FF, extra, conc., 150%	lb.	2.25	- —
561 Trisulphon brown BCW, conc	lb.	2.03	- —
581 Direct black E, double	lb.	.69	- —
593 Diamine green BXN, conc. 150%	lb.	.97	- —
598 Congo brown GG, conc. 150%	lb.	1.46	- —
620 Stilbene yellow G, conc	lb.	.92	- —
639 Xylene light yellow GX	lb	1.79	- —
640 Tartrazine, conc	lb.	1.46	- —
655 Auramine, conc	lb.	1.85	- —
667 Victoria green xml. cryst.	lb.	2.10	- —
662 Brilliant green cryst	lb.	2.79	- —
667 Brilliant milling green B, conc	lb.	3.68	- —
671 Brilliant Blue E	lb.	1.73	- —
680 Methyl violet S, conc	lb.	1.10	- —
681 Crystal violet powder	lb.	3.15	- —
686 Formyl violet S4B	lb.	1.50	- —
720 Chrome azure blue BR, conc. 200%	lb	3.75	- —
729 Victoria blue B, conc	lb.	2.79	- —
739 Green SN, extra	lb.	2.41	- —
740 Rhodamine B, extra	lb.	4.33	- —
814 Fast yellow NNL, conc. 175%	lb.	3.11	- —
841 Safranine T, extra, conc., 125%	lb.	2.90	- —
865 Nigrosine WSJ	lb.	.68	- —
922 Methylene blue ZX	lb.	1.55	- —

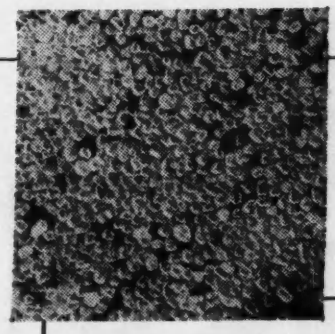

Photo of General Chemical's Superior New Large Crystal Oxalic Acid; Slightly Enlarged.

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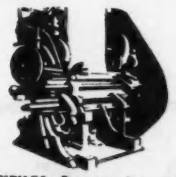

TEXTILES—For removing rust stains. In development of color when printing. For removing soil or smears after aniline black printing.

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For These or Other Uses
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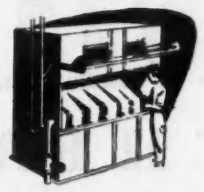
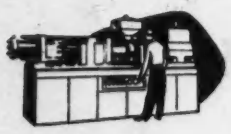


DYES—In dye manufacture.

PENTAERYTHRITOL—In manufacture of pentaerythritol which is used in making surface coating resins and explosives.

LAUNDRIES—For laundry sours and rust removers.

DRUGS—For manufacturing pharmaceuticals, antibiotics.



PLASTICS—As a polymerization catalyst or decoloring agent.

CHEMICALS—For manufacturing oxalates and other chemicals.

Whether you require Oxalic Acid in a large crystal form for manufacture of auto radiator cleaners . . . or a fine crystal material for exacting process uses . . . General Chemical can "fill the bill."

Long recognized for its consistently high purity, General's Oxalic Acid is a clear, colorless crystalline product which assays a minimum of 99.5% $C_2H_2O_4 \cdot 2H_2O$. It is now produced in large and fine crystal forms to meet every requirement.

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FOR AMERICAN INDUSTRY

Available in convenient, easy-to-handle 100-lb. bags; also 400-lb. fibre drums.

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype):

969	Sulphanthrene blue GR paste,	lb.	.76	—
978	Sulphogene carbon HCF	grains lb.	.52	—
1034	Alizarin red S, conc	lb.	2.59	—
1054	Anthraquinone blue B	lb.	2.91	—
1096	Indanthrene golden orange G, single paste	lb.	2.00	—
	double paste	lb.	4.00	—
1099	Indanthrene dark blue BO, single paste	lb.	1.75	—
1101	Brilliant green B, double paste	lb.	2.38	—
1106	Indanthrene blue RS, double paste	lb.	2.57	—
1113	Indanthrene blue GCD, double paste	lb.	1.75	—
1150	Indanthrene olive R, single paste	lb.	1.10	—
1151	Indanthrene brown R, single paste	lb.	1.68	—
	double paste	lb.	3.35	—
1212	Sulphanthrene red violet 2RN, single paste	lb.	1.62	—
1217	Sulphanthrene orange R, single, paste	lb.	1.65	—
p-4	Acid anthracene brown PGN,	lb.	2.31	—
p-14	Anthracene chromate brown EBN	lb.	1.31	—
p-24	Benzo fast black L, conc., 150%	lb.	2.18	—
p-80	Diazo brilliant scarlet ROA	lb.	2.79	—
p-202	Zambesi black V	lb.	1.08	—
p-313	Naphthol AS-SW	lb.	2.42	—
p-244	Celliton scarlet B	lb.	1.31	—
1078	Anthraquinone green G	lb.	2.72	—
1085	Alizarin blue black B	lb.	2.33	—

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.

Black blue No. 550	lb.	.81	—
Jet, No. 551	lb.	.89	—
Brown R, conc.	lb.	1.72	—
Orange R, brilliant	lb.	.90	—
Red 4 B, conc.	lb.	1.37	—
Yellow C	lb.	1.18	—
FN, conc.	lb.	1.22	—

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms, sellers' works:—

Auramine, O	lb.	1.85	—
Black, basic blue	lb.	1.21	—
Jet	lb.	1.21	—
Blue, methylene, 2 B, conc.	lb.	1.55	—
Brown, Bismarck, R, conc	lb.	.86	—
Chrysodine, R, extra	lb.	60	—
Y, extra	lb.	.64	—
Fuchsine, conc	lb.	3.08	—
Green, malachite, conc	lb	2.10	—
Rhodamine B	lb	4.33	—
Safranine, Y, conc	lb	2.90	—
Violet, methyl B	lb	1.10	—

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:

Azo rubine R, extra, conc	lb.	1.04	—
Black, acid blue, B, extra	lb.	.86	—
Orange Acid, Y, conc	lb.	.47	—
Scarlet, croceine, MOO	lb.	1.45	—
Yellow azo-, conc	lb.	.90	—
Fast light, 3 G, extra	lb.	2.04	—
Methanil, conc	lb.	.91	—

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

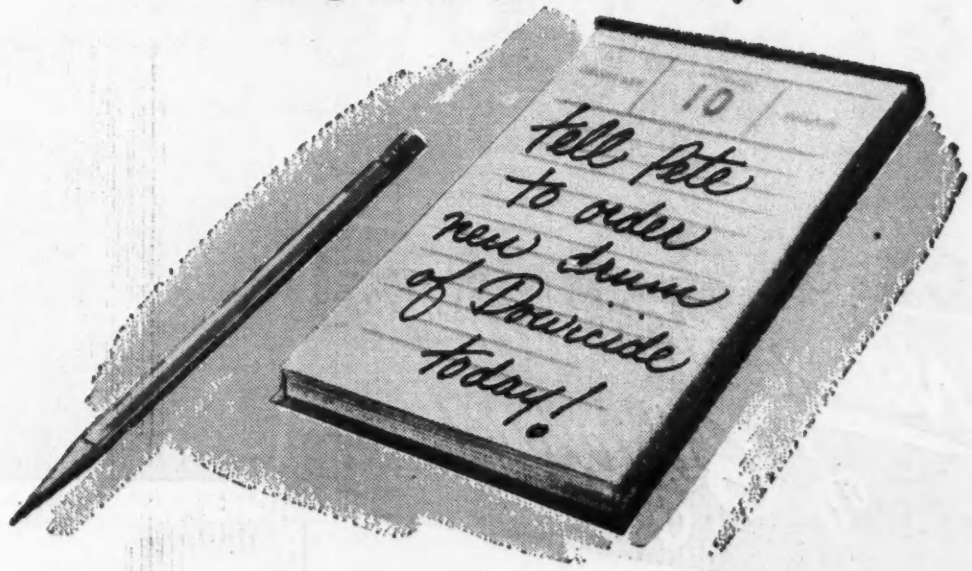
Echinacea root, bls	lb.	.90	Nom.
Egg albumen (see Albumen).			
Yolk, dried, dom., bbls	lb.	1.09	- 1.11
Chinese, spot, bbls., duty paid	lb.	No stocks.	
tanners bbls	lb.	.06	- .06½
Elder flowers, bright, bls	lb.	.30	- .40
Elecampane root, bls	lb.	.23	- .25
Elm bark, grinding, bls	lb.	.28	- .29
powd., bbls., bxs	lb.	.46	- .47
select, bundles	lb.	.60	- .61
Emetine hydrochloride, USP, bots.	oz.	35.00	-42.85
Ephedrine synthetic, USP, anhydrous bots., 100-oz. lots	oz.	.98	- 1.00
hydrous, bots., 100-oz. lots	oz.	.92	- —
Hydrochloride, tin, 100-oz. lots	oz.	.75	- —
Sulphate cryst., tins, 100-oz. lots	oz.	.72	- —
powd., tins, 100-oz. lots	oz.	.73	- —
Epichlorohydrin, dms., c.l., works	lb.	.38¾	—
l.c.l., works	lb.	.39½	—
tanks, works	lb.	.37	—
Epinephrine, synth., USP, bots., 100 grams	gram.	.45	- .55
Epsom salt, tech., bgs., c.l., works, 100 lbs		2.15	—
l.c.l., works	100 lbs	2.90	3.15
USP, cryst., bgs., c.l., works, 100 lbs		2.35	—
l.c.l., 5,000 lbs., 1 withdrawal	100 lbs	3.10	—
smaller lots	100 lbs.	3.35	—
Ergosterol, unirradiated, cryst	kilo	150.00	—
Ergot, NF, dms., tin-lined	lb.	4.00	- 4.25
Eserine, bots	oz.	45.00	-50.00
Salicylate USP, bots	oz.	32.50	-34.00
Sulphate, bots	oz.	34.50	-35.50
Ether acetate (see Ethyl acetate)			
Butyl, dms., c.l., works	lb.	.31½	—
l.c.l., works	lb.	.32	—
tanks, works	lb.	.30	—
Butyric (see Ethyl butyrate).			
Dichloroethyl, retd., dms., c.l., frt. alld. E	lb.	.14	- .14½
l.c.l., same basis	lb.	.15	- .16
tanks, same basis	lb	.13	—
technical, dms., c.l., works	lb.	.13	—
l.c.l., works	lb.	.13½	—
tanks, works	lb.	.12	—
Ethyl, absolute, ACS, dms	lb.	.37	—
anesthesia, USP, hospitals, 1-lb. cns	lb.	.89	—
½-lb cns	lb.	.97	—
¼-lb cns	lb.	1.05	—
solvent, USP, dms., c.l., dlvd.	lb.	.15¾	—
l.c.l., same basis	lb.	.16¾	—
tanks, same basis	lb.	.13¾	—
synthetic, dms., c.l., dlvd. E	lb.	.1575	—
l.c.l., same basis	lb.	.1675	—
tanks, same basis	lb.	.1375	—
Isopropyl, dms., c.l., dlvd	lb.	.0675	- .0856
l.c.l., dlvd.	lb.	.0750	- .0936
tanks, dlvd	lb.	.05	- .07½
Nitrous, conc., bots., 100-lb. lots	lb.	1.28	- 1.33
Vinyl, USP, anesthesia, bots, 50 cc. hospitals	bot.	1.12	—
75 cc. hospitals	bot.	1.56	—
Ethyl acetate, natural, fermentation 85-88%, dms., c.l., frt. alld.	lb.	.12¾	—
l.c.l., frt. alld	lb.	.13¾	—
tanks, frt. alld	lb.	.11	—
95-98%, dms., c.l., frt. alld.	lb.	.13	—
l.c.l., frt. alld	lb.	.13¾	—
tanks, frt. alld	lb.	.11¼	—
99%, dms., c.l., frt. alld.	lb.	.13¼	—
l.c.l., frt. alld	lb.	14	—
tanks, frt. alld	lb.	.11½	—
NF, dms., frt. alld	lb.	.24	- .25
synthetic, 85-90%, dms., c.l., frt. alld	lb.	.12¾	—
l.c.l., frt. alld	lb.	.13½	—
tanks, frt. alld	lb.	.11	—
Ethyl acetate, 88-90%, dms., c.l., frt. alld	lb.	.12¾	—
l.c.l., frt. alld	lb.	.13½	—
tanks, frt. alld	lb.	.11	—
95-98%, dms., c.l., frt. alld	lb.	.13	—
l.c.l., frt. alld	lb.	.13¾	—
tanks, frt. alld	lb.	.11¼	—
99%, dms., c.l., frt. alld	lb.	.13¼	—
l.c.l., frt. alld	lb.	.14	—
tanks, frt. alld	lb.	.11½	—
NF, dms., frt. alld	lb.	.24	- .25
synthetic, 85-90%, dms., c.l., frt. alld	lb.	.12¾	—
l.c.l., frt. alld	lb.	.13½	—
tanks, frt. alld	lb.	.11	—
Ethyl acetoacetate, dms., c.l., dlvd	lb.	.55	—
l.c.l., dlvd	lb.	.56½	—
Acrylate, dms., c.l., and truckload, dlvd	lb.	.49	—
less than truckload, dlvd	lb.	.49½	—
tanks, dlvd	lb.	.48	—
Aminobenzate, USP (see Benzocaine).			
Benzoate, cns, dms	lb.	.74	- .79
Bromide, tech., 98%, dms	lb.	.43	- .47
Butyrate, works	lb.	.80	- 1.02
Carbamate (see Urethane).			
Chloride, tech, dms, c.l., works	lb.	.18	- .20
cyls., c.l., same basis	lb.	.20	- .22
tanks same basis	lb.	.10	—
USP, bbls., cyls	lb.	.22	- .24
Cinnamate, cns	lb.	2.28	- 2.53
Formate, dms	lb.	.60	—
Gallate, dms., 100 to 2,000-lb. lots	lb.	3.90	- 4.40
Iodide, bots., works	lb.	4.13	—
cbys., works	lb.	3.50	—
Lactate, dms., works	lb.	.47½	—
Methacrylate, dms., c.l., and truckload works	lb.	.50	—
less than truckload, works	lb.	.50½	—
Nitrite (see Ether nitrous).			
Oenanthate, dms	lb.	1.00	1.50
Oleate, dms., l.c.l., works	lb.	No prices.	
Oxalate (see Diethyl oxalate).			
Silicate, dist. (see Tetraethyl-orthosilicate)			
40% available SiO, dms., works, less than truckload	lb.	.60½	—
Ethylalphanaphthylamine (see Monoethylalphanaphthylamine).			
Ethylamine (see Mono-, Di-, or Tri-)			
Ethylaniline (see Monoethylaniline).			
Ethylbenzene, dms., c.l.	lb.	.14	—
l.c.l	lb.	.15	—
tanks	lb.	.13	—
Ethylbutyl ketone, dms., c.l., works,	lb.	.33⅓	—
l.c.l., works	lb.	.34	—
tanks	lb.	.32	—
Ethylcellulose, vis. 7 cps., bgs., 5,000 lb. lots or more, works	lb.	.70	—
smaller lots, works	lb.	.72	- .80
vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, works	lb.	.65	—
smaller lots	lb.	.67	- .75
Ethylene dichloride, dms., c.l., dlvd. E	lb.	.11¾	—
l.c.l., same basis	lb.	.12¾	—
tanks, same basis	lb.	.10	—
Ethylene dichloride prices W. of Rockies, 1c per lb. higher.			
Oxide, cyls., c.l., works	lb.	.26	—
l.c.l., works	lb.	.27	—
tanks, dlvd E	lb.	.19	—
Trichloride (see Trichloroethane).			
Ethylenediamine, 76%, basis 100%, dms., c.l., dlvd.	lb.	.49	—
l.c.l., dlvd.	lb.	.50	—
tanks, dlvd	lb.	.47	—
Ethyleneglycol, dms., c.l., frt. alld. E	lb.	.18¾	—
l.c.l., same basis	lb.	.19¾	—
tanks, same basis	lb.	.17	—
Monobutylether, dms., c.l., dlvd.	lb.	.22½	—
l.c.l., dlvd.	lb.	.23½	—
tanks, dlvd.	lb.	.21	—
Ethyleneglycol monoethylether, dms., c.l., dlvd.	lb.	.20	—
l.c.l., dlvd.	lb.	.21	—
tanks, dlvd.	lb.	.18½	—
Monoethylether acetate, dms., c.l., dlvd	lb.	.18¼	—
l.c.l., dlvd.	lb.	.19¼	—
tanks, dlvd.	lb.	.16½	—
Monomethylether, dms., c.l., works	lb.	.22	—
l.c.l., works	lb.	.22½	—
tanks, works	lb.	.21	—
Monomethylether acetate, dms., c.l., works	lb.	.23¾	—
l.c.l., works	lb.	.29¼	—
tanks, works	lb.	.27	—
Monostearate, dms	lb.	.30	- .37
Ethylethanolamines, mixed, dms., c.l., frt alld., E. Miss	lb.	.42	—
l.c.l., same basis	lb.	.43	—
tanks, same basis	lb.	.40	—
Ethylmorphine hydrochloride, USP, bots	oz.	11.85	—
Ethylorthotoluidine (see Monoethyl-orthotoluidin).			
Ethylvanillin, cns., 25-lb. lots	lb.	6.75	- 7.30
smaller lots	lb	7.35	7.40
Eucalyptol, USP, cns., dms	lb.	1.65	- 1.90
Eucalyptus leaves, bls	lb.	.10	.11
Eugenol, pure, USP, bots	lb.	2.90	3.45
Euphorbia herb, bls	lb.	.12	- .14

F

Feldspar, enamel, 100 mesh, bgs., works	ton.	20.00	-22.00
Glass, 20 mesh bulk, tons, works	ton.	11.75	-12.50
Pottery bgs., ton lots, works	ton.	20.00	-22.00
bulk, c.l., works	ton.	18.00	-20.00

protect your products from mold and bacteria

NOW... LATER!



From raw materials to finished products, Dowicide industrial germicides and fungicides are doing an effective job of microbial control in many industries. Check this list to see how you can benefit from these proved preservatives.

1. In textiles, they protect sizing solutions from decomposition by bacterial attacks.
2. They protect leather during salt curing, soaking, brining, chrome tanning and sammying, as well as the coating and finishing materials.
3. In pulp and paper they protect lap stock from mold, increase felt life and help control slime.

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DOW CHEMICALS
INDISPENSABLE TO INDUSTRY AND AGRICULTURE

Fennel Seed—Gum, Dammar, East India, Batu

Fennel seed, Czech, dark, bgs...lb. .20 - .21
French, bgs...lb. .24 - .24½
Syrian, light, bgs...lb. .29 - .29½
Fenugreek seed, Moroccan, bgs...lb. .06 - —
Ferric-ammonium citrate (see Iron ammonium citrate).
Ferric cacodylate (see Iron cacodylate).
Ferric glycerophosphate (see Iron-glycerophosphate).
Ferric hypophosphite (see Iron hypophosphite).
Ferric sulphate (see Iron sulphate-ferric).
Ferrous gluconate, NF, dms...lb. .88 - .97
Fir balsam, Canada, cns...gal.32.50 -33.50
Oregon, bbls...gal. 2.35 - 3.25
Fishberries, bgs...lb. .17 - .21
Fishliver oil (see Oil, fishliver).
Fishmeal ground, domestic, 60% protein, bulk, Balto area...ton.135.60 - —
Fishscrap, dried 60% protein, bulk, Balto area...ton.129.60 - —
Fluorspar, acid grade, bulk, c.l., mine...ton.60.00 - —
ceramic grade, 95-96% CaF_2, grd., bulk, mine, c.l...ton.47.00 Nom.
85% CaF_2, grd., bulk, mine...ton.41.50 Nom.
metallurgical grade, foundry, lump, 55-60% effective CaF_2, bulk, mine, c.l., ton.38.00 Nom.
washed gravel, 59-60% effective CaF_2, bulk, mine, c.l...ton.38.00 Nom.
60-65% effective CaF_2, bulk, mine...ton.39.00 - —
65-70% effective CaF_2, bulk, mine, c.l...ton.40.00 Nom.
Fluorspar, metallurgical grade, washed gravel, 70% or better, effective CaF_2, bulk, mine, c.l...ton.41.00 - —
imported, bulk, ex dock, New York...ton.37.00 Nom.
Formaldehyde, NF (inhibited), dms., c.l., E., works...lb. .0625- —
l.c.l., E. works...lb. .0675- —
tanks, E. works...lb. .0420- —
methanol-free (uninhibited), tanks, works...lb. .0395- —

Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard as well as W. of Rockies, prices f.o.b. Texas plants, are .0270 for inhibited and .0245 for uninhibited.

Fleaseed (see Psyllium seed).
Fringetree bark, bls...lb. .60 - .61
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga., mines...ton.38.50 - —
Illinois mines...ton.37.20 - —
spent, bulk, Bayonne...ton 2.00 - 4.00
imported, bgs., c.l...ton.30.00 -40.00
Furfural, tech., dms., c.l., works...lb. .13 - —
l.c.l., works...lb. .15 - —
tanks, works...lb. .108 -
Fusel oil, refined, dms., c.l., dlvd...lb. .16¾- —
l.c.l., dlvd...lb. .17½- —
tanks, dlvd...lb. .15 - —
Fustic extract, cryst., No. 1, bbls., l.c.l...lb. .47½- —
No. 2, bbls., l.c.l...lb. .45½- —
No. 3, bbls., l.c.l...lb. .43½- —
liquid, No. 1, bbls., l.c.l...lb. .22½- —
No. 2, bbls., l.c.l...lb. .21½- —
No. 3, bbls., l.c.l...lb. .19 - —
solid, No. 1, bxs., l.c.l...lb. .45 - —

G

G salt, bbls., frt. alld...lb. .73 - —
Galangal root, bls...lb. .18 - .25
Gammapicoline, 95%, dms., c.l., works...lb. 1.00 - 1.05
Gasoline, at refinery, ex tax, Arkansas, 80 octane tanks...gal. .1075- —
N. Y. Harbor, 86 octane, tanks...gal. .1285- .136
Group 3, 82 octane, tanks...gal. .10375- .105
Gulf coast, 82 octane, tanks...gal. .1125- .1130
Penn., western U. S. motor, 86 octane, tanks...gal. .1275- .129
natural, group 3, 26-70 octane, tanks...gal. .06875- —
Gelatin, silver label, imported...cs.lb. 1.25 - —
Gelsemium root, bls...lb. .26 - .27
Gentian root, bls...lb. .17 - .18
grd., bbls., bxs...lb. .22 - .23
powd., bbls., bxs...lb. .23 - .24
Geraniol, extra, cns., dms...lb. 1.55 - 1.65
standard, cns., dms...lb. .75 - 1.50
Geranyl acetate, cns...lb. 1.55 - 1.80
Ginger, oleoresin, NF, from African roots, bots...lb. 4.00 - 7.75
from Jamaican root, bls...lb. 5.00 -12.75
Root, African, bls...lb. .14 - .14½
Cochin, unbleached, bgs...lb. .18½- —
Jamaica, No. 1, bgs...lb. .24 - —
No. 2, bgs...lb. .18 - —
No. 3, bgs...lb. .17 - —
Rhattoon, bgs...lb. .16 - —
Nigerian, split, bgs...lb. .12 - .13
Ginseng root, cs...lb.16.50 -17.00
Glauber's salt, anhyd (see Sodium sulphate).
cryst., bgs., c.l., works, frt. alld...ton.45.00 - —
l.c.l., works...ton.50.00 - —
Glue, bone, extracted, 66 jellygrams, bgs., c.l., dlvd...lb. .24½- —
86 jellygrams, same basis...lb. .25 - —
104 jellygrams, same basis...lb. .25½- —
151 jellygrams, same basis...lb. .26 - —
164 jellygrams, same basis...lb. .26½- —
191 jellygrams, same basis...lb. .27 - —
222 jellygrams, same basis...lb. .28 - —
packers', 40 jellygrams, bgs., c.l., dlvd...lb .21½- —
65 jellygrams, same basis...lb. .22½- —
86 jellygrams, same basis...lb. .23 - —
115 jellygrams, same basis...lb. .24 - —
135 jellygrams, same basis...lb. .25 - —
164 jellygrams, same basis...lb. .26 - —
185 jellygrams, same basis...lb. .27 - —
renderers', 110 jellygrams, bgs., c.l., dlvd...lb. .22 - —

Bone glue, l.c.l. prices 1c. higher.

hide, 70-94 jellygrams, bgs., c.l., dlvd...lb. .26 - —
95-121, bgs., c.l., dlvd...lb. .27½- .28
122-149, bgs., c.l., dlvd...lb. .29 - .29½
150-177, bgs., c.l., dlvd...lb. .30 - .31
178-206, bgs., c.l., dlvd...lb. .31 - .32
207-236, bgs., c.l., dlvd...lb. .32 - .33
237-266, bgs., c.l., dlvd...lb. .33 - .34
267-296, bgs., c.l., dlvd...lb. .34 - .35
299-330, bgs., c.l., dlvd...lb. .35 - .36
331-362, bgs., c.l., dlvd...lb. .36 - .37
363-394, bgs., c.l., dlvd...lb. .37 - .38
395-427, bgs., c.l., dlvd...lb. .38 - .39
428-460, bgs., c.l., dlvd...lb. .40 - .41
461-494, bgs., c.l., dlvd...lb. .41 - .43
495-529, bgs., c.l., dlvd...lb. .42 - .45

Hide glue l.c.l. prices 1c. higher than c.l.

Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd...lb. .27 Nom.
soaplye, 80%, tanks, dlvd...lb. .25 Nom.
dynamite, dms., c.l., dlvd...lb. .33¾- —
l.c.l., dlvd...lb. .34¼- —
tanks, dlvd...lb. .33¼- —
high gravity, dms., c.l., dlvd...lb. .34 - —
l.c.l., dlvd...lb. .34½- —
tanks, dlvd...lb. .33½- —
refined, BP, 98%, dms., c.l., dlvd...lb. .35½- —
l.c.l., dlvd...lb. .36½- —
tanks, dlvd...lb. .35½- —
USP, CP, 95%, dms., c.l., dlvd...lb. .34½- —
l.c.l., dlvd...lb. .35 - —
tanks, dlvd...lb. .34 - —
yellow, distilled, dms., c.l., dlvd...lb. .33⅞- —
l.c.l., dlvd...lb. .34⅜- —
tanks, dlvd...lb. .33⅜- —

Glycine, USP (see Acid aminoacetic)

Glyoxal, 30%, dms., c.l. works...lb. .18½- —
l.c.l., works...lb. .19 - —
tanks, works...lb. .18 - —
Gold chloride, acid-brown, bots...oz.23.50 -24.00
acid-yellow, bots...oz.21.00 -21.50
Golden seal root, NF, tested, bls., lb. 3.00 - 3.05
powd., bxs...lb. 3.25 - 3.30
Gold-sodium chloride, photo, bots. oz.13.00 -14.00
USP IX, bots...oz.14.50 -15.50
Grains of paradise, bgs...lb. .33 - .34
Graphite, amorph., powd., bgs., fib. dms. ex whse...lb. .05 - .095
crystalline, 88-90%, powd., bgs., fib. dms., ex whse...lb. .19 - .215
90-92%, powd., bgs., fib. dms., ex whse...lb. .21 - .24½
95-97%, powd., bgs., fib. dms., ex whse...lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex. whse...lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse...lb. .29 - .31
Grease, brown, dlvd...lb. .03½- —
house...lb. .03⅜- —
white, choice...lb. .05½- —
yellow...lb. .04 - .04⅛
Green, brilliant, thioflavin, toner, molybdated, PMA, bgs., works...lb. 4.50 - —
tungstated, PTMA, bgs., works...lb. 6.30 - —
Chrome, CP, dark, light, medium, blue content 5 to 30%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis...lb. .37 - —
31-50%, bbls., same basis...lb. .37 - .38
50-60%, bbls., same basis...lb. .40 - —
reduced color, 25%, bbls., same basis...lb. .17 - .17¼

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., dms., c.l., frt. alld...lb. .95 - 1.20
pure, c.l., bgs., frt. alld...lb. .37½- .44
Dyes (see Dyes, coaltar).
Emerald, malachite toner, tungstic, PTMA, bbls., works...lb. 4.50 - 5.50
Paris (see Paris green).
Phthalocyanin toner, bbls., works. lb. 4.40 - —
resinated, bbls...lb. 4.00 - —
water dispersable, bbls...lb. 1.71 - —
Pigment B, kegs...lb. 1.35 - —
Grindelia robusta herb, bls...lb. .30 - .32
Guaiac resin, NF, cs...lb. .55 - .60
ordinary, cs...lb. .49 - .51
Guaiacol, cryst., tins...lb. 1.90 - —
liquid, NF, bots., cbys...lb. 2.15 - 2.20
Carbonate, dms...lb. 3.15 - 3.20
Guarana powd., cs...lb. 1.50 - 1.75
Gum accroides (see Gum yacca).
Aloe (see A.)
Ammoniac tears, cs...lb. .35 - .65
Arabic, amber sorts, bgs...lb. .15½- .16
powdered, USP, bbls...lb. .19 - .21
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs...lb. .38 - .40
Camphor (see C).
Cellulose, bgs., 23,000 lbs. or more, works, frt. alld...lb. .60 - —
smaller lots, same basis...lb. .62 - —
works...lb. 6.50 - —
Copal, Congo, No. 1, bgs...lb. .21 - .23
No. 2, bgs...lb. .19 - .20
No. 3, bgs...lb. .17½- .18½
Manila, loba B, bgs...lb. No prices.
C, bgs...lb. .27 - .32
CBB, bgs...lb. .22 - .23
CNE, bgs...lb. No prices.
DBB, bgs...lb. .14 - .18
DK, bgs...lb. .13 - .15
dust, bgs...lb. .11 - .12½
soft, MA, bgs...lb. .13 - .16
WS, bgs...lb. .27 - .35
Philippine, pale, chips, bgs...lb. .18 - .25
nubs, bgs...lb. .27 - .32
seeds, bgs...lb. .15 - .21
sorts, bgs...lb. .18 - .22
Pontianak, chips, bgs...lb. .22 - .26
nubs, bgs...lb. .36 - .40
Dammar, Batavia, A/E bgs...lb. .24 - .26
dust, bgs...lb. .14 - .16
E., bgs...lb. .16 - .18
East India, batu, bold, bgs...lb. .12 - .14
nubs and chips, bgs...lb. .08 - .10

The Jones-Dabney Division of Devoe and Raynolds Company began using Glycerine to produce alkyd resins over 30 years ago. Today, the same Glycerine-derived alkyds which are used for every industrial coating application from bobbypins to battleships—can also be found in the famous Devoe line of enamels and interior finishes.

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Gum, dammar, East India, black, bold, bgs. lb. .14½ - .16
unscraped, bgs. lb. .12 - .13
nubs and chips, bgs. lb. .11 - .13
pale, chips, bgs. lb. .13 - .14
nubs, bgs. lb. .19 - .20
Singapore, No. 1, bgs. lb. .35 - .38
No. 2, bgs. lb. .29 - .32
No. 3, bgs. lb. .16 - .17
dust, bgs lb. .14 - .16
seeds, bgs. lb. .16 - .18
Ester, gum-rosin, type, dms., c.l., dlvd. fil., Ind., Ky., Mich., Mid-Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .14 - .14½
wood-rosin type, dms., c.l., dlvd., fil., Ind., etc lb. .14 - —
Euphorbium, cs. lb. .55 - .60
Galbanum, cs lb. .75 - .80
Gamboge, pipe, cs. lb. .70 - 1.00
powd., bbls lb. .90 - 1.20
Ghatti, No. 2, bgs. lb. .35 - .37
No. 3, bgs lb. .31 - .33
Guaiac (see Guaiac resin)
Karaya, NF, powd., No. 1, bbls. lb. .30 - .35
No. 2, bbls lb. .25 - .28
No. 3 bbls lb. .22 - .23
Kauri, bgs. lb. .30 - .50
Kino, cs lb. 1.15 - 2.40
Locust bean, powd., bgs. lb. .32 - .35
Mastic, cs lb. 2.00 - 2.10
Myrrh, cs lb. .30 - .35
Olibanum, siftings, cs. lb. .16 - .18
tears cs lb. .20 - .30
Opium (see O).
Red (see Gum yacca).
Rosin (see R).
Sandarac, cks. lb 3.50 - 4.00
Scammony, cs. lb. 1.50 - 1.55
Sterculia (see Gum karaya).
Talha, bgs. lb. .10 - .11
Tragacanth, No. 1, cs. lb. 3.00 - 3.05
No. 2, cs. lb. 2.60 - 2.65
No. 3, cs. lb. 1.70 - 1.75
powdered, USP, bbls. lb. 1.25 - 1.35
Yacca, bgs lb. .06 - —
Gypsum, anhydrous filler, paper bgs., c.l., Medicine Lodge Kan ton.19.00 - —
Plaster of paris, paper bgs., c.l., Baltimore, frt. equald. ton.18.30 - —
Harlem river, N. Y., frt. equald ton.17.30 - —
Medicine Lodge, Kan., frt. equald ton.16.00 - —
Stucco, paper bgs., Akron, N. Y., frt. equald. ton. 8.00 - —
Blue Rapids, Kans., frt. equald ton. 8.00 - —
Fort Dodge, Iowa, frt equald. ton. 8.00 - —
Gypsum, Ohio, frt. equald. ton. 8.00 - —
Grand Rapids, Mich., frt. equald. ton. 8.00 - —
New Brighton N. Y., frt. equald ton. 8.00 - —
Plasterco, Ga., frt. equald. ton. 8.00 - —
Roton, Texas, frt. equald ton. 8.00 - —
Southard, Okla., frt. equald. ton. 8.00 - —
Sweetwater, Texas, frt. equald ton. 8.00 - —
Terra alba, dom., paper bgs., c.l., Baltimore ton.14.40 - —
Harlem River, N. Y. ton.14.40 - —
Imported, English, paper bgs., ex dock ton.48.00 - —
ex warehouse ton.53.00 -56.00

H

Hawthorn berries, bgs. lb. .30 - .32
Heliotropine, cryst., cns. lb. 3.10 - 3.45
Helonias root, bls. lb. 1.50 - 1.55
Hellebore root, dom., green, bls. lb. .60 - .65
imp., black, whole, bls. lb. .25 - .30
ground, bxs lb. .30 - .35
powder, bxs lb. .32 - .37
white, whole, bls. lb. .25 - .30
powder, bxs lb. .35 - .45
Hematine extract, cryst. No. 1, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. lb. .43 - —
No. 3, bbls., l.c.l. lb. .41 - —
No. 4, bbls., l.c.l. lb. .39 - —
No 5, bbls., l.c.l. lb. .37 - —
paste, No 1, bbls., l.c.l. lb. .20½ - —
Henbane leaves, bls. lb. .35 - .40
Henna leaves, bls. lb. .23 - .25
powd., bbls., bgs lb. .22 - .29
Heptane, industrial, Bayonne, N. J., tanks gal. .18 - —
group 3, tanks gal. .1373- .1403
Hesperidin methylchalcone, bots., works lb.50.00 - —
Hexachlorophene, dms. lb. 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 1,000-lb. lots or more, Perth Amboy or N. Y. C. lb. .232 - —
less than 1,000-lb. lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
less than 1,000-lb. lots, same basis lb. .249 - —
USP, dms., 500 lbs. or more, same basis lb. .40½ - —
smaller lots, same basis lb. .41½ - —
Hexamine (see Hexamethylene tetramine).
Hexane, industrial, Bayonne, N. J., tanks gal. .18 - —
Group 3, tanks gal. .143 - .148
Hexanol, normal, dms., c.l., works, lb. .34½ - —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 2.25 - 2.50
Salicylate, dms lb. 1.75 - —
Hexylenegiycol, dms., c.l., dlvd lb. .15¾ - —
l.c.l., dlvd lb. .16½ - —
tanks, dlvd lb. .14 - —
Hexylmethacrylate, normal, dms., less than truckload, works, lb. .71 - —
Hexylresorcinol, USP, dms., dlvd., 50-lb. lots or more lb.15.00 -16.00
smaller lots, dlvd lb.16.00 -17.00
Histamine diphosphate, USP., bots. kilo.450.00 - —
Histidine hydrochloride, laevo, NF, fib. dms., 50-kilo lots, works. kilo.80.00 -85.00
1-5 kilo lots works kilo.90.00 -95.00
Homatropine hydrobromide, USP, bots oz.13.75 -14.00
Hydrochloride, bots oz.20.00 -22.00
Methylbromide, USP, bots oz.13.00 -14.50
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 7.00 - —
Hops, NF, bls lb. .30 - .35
Horehound herb, bls. lb. .14 - .15
Hydrangea root, bls. lb. .22 - .25
Hydrastine, bots oz.29.50 -31.00
Hydrochloride, NF, bots oz.29.50 -31.00
Sulphate, bots oz.35.00 -37.00
Hydrastinine, 10-grain bots. bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., Niagara Falls lb. 4.50 - 5.25
Hydrate, 100%, ret. dms., Niagara Falls lb. 3.00 - 3.50
85%, same basis lb. 2.53 - 3.00
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40

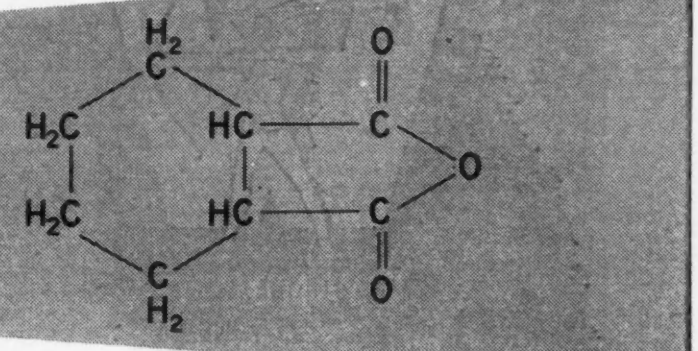
Hydrogen chloride anhyd., 50-lb. cyl., works lb. .53 - .60
Peroxide, USP bbls., dlvd. lb. .03¾- .05
35%, cbys., same basis lb. .217 - .242
dms., c.l., same basis lb. .21 - —
l.c.l., same basis lb. .215 - .24
tanks lb. .203 - —
Hydrogen peroxide prices on W. Coast 2c per lb. higher.
Hydroquinone, photogrd., bbls., dms. lb. .98 - 1.00
tech., dms., c.l., frt. equald lb. .77 - —
l.c.l., frt. equald lb. .78 - —
Hydroxycitronellal, cns. lb. 5.80 - 6.00
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots oz.15.75 -16.00
Hydrobromide, bots oz.16.50 -18.00
Sulphate bots oz.12.00 -13.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 - —
liquid, No. 1, bbls., l.c.l. lb. .35 - —
No. 2, bbls., l.c.l. lb. .27 - —
Hyssop herb, bgs. lb. .35 - .36
Leaves, bgs. lb. .50 - .51

I

Iceland moss, bgs. lb. .30 - .35
Ichthammol, NF, dms. lb. .60 - .75
Indian red (see Red, Indian).
Indigo, nat., chests lb. 2.14 - 2.16
synth., paste, 20%, bbls. lb. .28 - .28½
Indol, CP, bots lb 17.00 -21.00
Inositol dms. dlvd. lb. 5.60 - —
tins, dlvd. lb. 5.70 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.84 - 2.04
resublimed, USP, bots., jars lb. 2.55 - 2.78
Iodochlorohydroxyquin, USP, dms. lb. 6.90 - —
Iodoform, NF, dms., kgs. lb 4.79 - 4.85
Ionone alpha, cns. lb. 3.75 - 8.15
Beta, cns. lb. 4.30 -11.25
Methyl, dms., cns lb. 3.90 - 8.40
Ipecac root, bgs. lb. 5.25 - 5.50
powd., bbls., bxs. lb. 6.00 - 6.25
Irish moss, bleached, prime, bls lb. .25 - .30
Iron acetate liquor, 22°, bbls., c.l., works lb. .09 - —
l.c.l., works lb. .09¾ - —
solut., USP, IX, cbys lb. .16 - —
dms. lb. .17 - —
Cacodylate, NF, bots lb.13.00 -14.00
Chloride (ferric), anhydr., tech., dms., c.l., works 100 lbs. 6.25 - —
l.c.l., works 100 lbs. 7.50 - —
cryst., indust., bbls., c.l., works 100 lbs. 5.25 - 6.25
l.c.l., works 100 lbs. 5.75 - 6.75
USP, dms., works lb. .07½ - .09
solut., 42° Be, basis 100%, cbys., c.l., works 100 lbs. 7.25 - 8.25
l.c.l., works 100 lbs. 7.75 -10.75
tanks, works 100 lbs. 3.45 - —
Citrate, gran., dms. lb. .77 - .80
Gluconate, NF (see Ferrous gluconate, NF).
Glycerophosphate, NF, powd lb. 4.45 - 4.53
Hypophosphite, NF, dms lb 2.80 - —
Iodide bgs. lb. 3.66 - 3.73
Naphthenate liq., 6% Fe., dms., frt. alld lb. .23¾ - —
Oxalate, gran., dms lb. .85 - .87
Phosphate, soluble, NF, gran., pearls, cs lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran., pearls, dms lb. .78 - .81
Reduced, NF, kgs lb. .90 - .95
Iron resinate, 6.75% Fe, dms., frt. alld. lb. .26¼ - —
Stearate, dms., c.l. lb. .37 - —
ton lots lb. .38 - —
less ton lots lb. .39 - —
Sulphate, ferric, partially hydrated, bgs., c.l., works ton.30.00 - —
l.c.l., works ton.31.00 - —
ferrous, tech. (see Copperas).
USP, cryst., bbls., dms lb. .09½ - .10
Iron by hydrogen (see Iron, Reduced).
Iron-ammonium citrate, brown, N.F., gran., dms lb. .55 - .60
green, USP XII, gran., dms lb. .55 - .59
Oxalate, fine gran., dms lb. .25½ - .28½
Iron-potassium oxalate, fine gran., dms lb. .30½ - .33½
Iron-sodium, oxalate, fine gran., dms lb. .25½ - .28¼
Isoborneol, cns lb. 1.25 - 1.70
Isobornyl acetate, cns. lb. .60 - .70
Formate, dms. lb. .80 - —
Propionate, dms lb 1.15 - 1.50
Isobutyl acetate, perfume grade, cns. lb. .73 - .97
solvent grade, dms., c.l., dlvd. E. of Rockies lb. .14 - —
l.c.l., same basis lb. .14¾ - —
tanks, same basis lb. .12¼ - —
Methacrylate, dms., works lb. .60 - —
Isobutyraldehyde, dms., dlvd lb. .50 - —
Isoeugenol, cns lb. 3.70 - 4.40
Isoniazid, bulk, powder, 25-kilo lots or more kilo.40.00 -48.00
smaller lots kilo.48.00 - —
Isonicotinic acid hydrazide (see Isoniazid).
Isopentane, dms. works lb. .43 - .55

another National Aniline development with interesting new properties

HEXAHYDRO PHTHALIC ANHYDRIDE



A new National ortho dicarboxylic acid anhydride, produced from basic raw materials which continue in plentiful supply, Hexahydro Phthalic Anhydride offers:

Superiority in resin and surface coating formulations where high solubility, high clarity, low viscosity and lightness of color are essential.

Advantages in manufacture of plasticizers for end uses where improved compatibility, lower viscosity and lightness of color are desired.

Opportunities as chemical intermediates for insecticides, insect repellents, rust inhibitors and other chemical products.

PROPERTIES

Appearance: Clear, colorless, viscous liquid, which freezes to a glassy solid.

Molecular Weight: 154.1 Boiling Point: 158°C @ 17 mm abs.

Solidification Point: 35-36°C Density at 40°C: 1.19 g/ml.

Solubility: Miscible with benzene, toluene, acetone, carbon tetrachloride, chloroform, ethanol and ethyl acetate. Only slightly soluble in petroleum ether.

99% minimum total acidity as hexahydrophthalic anhydride.

REACTIVITY

Hydrolysis: Cis-Hexahydrophthalic anhydride reacts with boiling water to form cis-hexahydrophthalic acid m.p. 190-191°C.

Esterification: Cis-Hexahydrophthalic anhydride reacts readily with absolute ethanol in the presence of sulfuric acid to form diethyl hexahydrophthalate.

Thermal Condensation: Cis-Hexahydrophthalic anhydride decomposes at about 380°C with evolution of carbon dioxide, forming a mixture of products including anthraquinone, dodecahydroanthraquinone and hydrogenated anthracene.

Amidation: Cis-Hexahydrophthalic anhydride reacts with aniline in benzene solution to form the monoanilide.

Friedel-Crafts Reaction: Cis-Hexahydrophthalic anhydride reacts with benzene and aluminum chloride to form 2-benzoylcyclohexanecarboxylic acid.

AVAILABILITY

Currently available in sample quantities

SEND FOR TECHNICAL BULLETIN I-2—
which contains four pages of reactions, suggested uses, references, etc.

NATIONAL ANILINE DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.

Boston Providence Philadelphia Chicago San Francisco
Portland, Ore. Greensboro Charlotte Richmond Atlanta
Columbus, Ga. New Orleans Chattanooga Toronto

Isophorone—Lithium Salicylate

Isophorone, dms., c.l., works....lb. .24¼- —
l.c.l., works....lb. .24¾- —
tanks, works....lb. .22½- —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .11¾- —
l.c.l., same basis....lb. .12½- —
tanks, same basis....lb. .10 - —
Alcohol (see Alcohol, Isopropyl).
Benzene (see Cumene).
Ether (see Ether, Isopropyl).
Isopropylamine (see Mono-, Di-, or Tri-)
Isopropylphenol, dms., c.l., works lb. .46 - —
l.c.l., works....lb. .47 - —
tanks, works....lb. .45 - —
Isoquinoline, dms., works....lb. .65 - 1.25

J

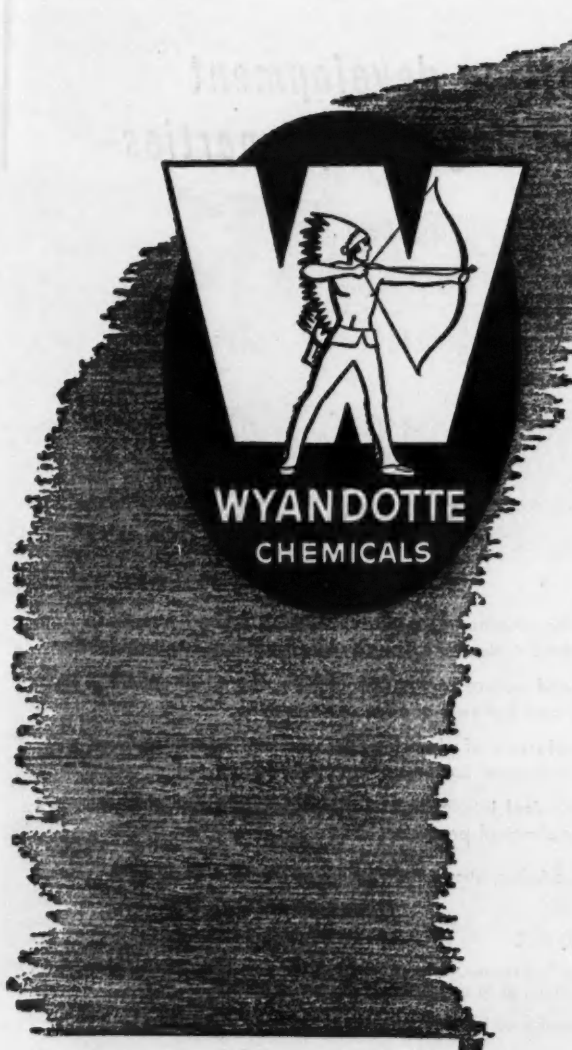
Jaborandi leaves, bls....lb. .17 - .18
Jalap root, NF, bls....lb. .45 - .55
powd., bbls., bxs....lb. .50 - .60
Juniper berries, bgs....lb. .06 - .15
Tar, NF, dms....lb. .42 - .50

K

Kamala, powd., cns....lb. .75 - .80
Kava Kava root, bls....lb. .30 - .32
Kaolin (see also Clay, China).
NF, powd., fib. dms....lb. .06 - .16¼
colloidal, fib. dms....lb. .15 - .15¼
Kerosene, at refinery, Ark., 42-44 specific gravity, w.w., tanks, gal. .0925- —
California, 40-43 s.g., w.w., tanks, gal. .120 - .130
Gulf ports, 41-43 s.g., w.w., tanks, gal. .0970- .1015
N. Y. Harbor, 43-44 s.g., w.w., tanks..gal. .1075- —
Okla.-Tex., 41-43 s.g., w.w., tanks..gal. .0675- .095
Penn, Western, 45 s.g., w.w., tanks..gal. .1125- .1195
Kola nuts, bgs....lb. .08 - .09
Kyanite, imp., 60% alumina, low iron content, 10 mesh, bulk whse..ton.95.00 -100.00
calcined, grain, 10-mesh, whse. ton.95.00 -105.00

L

Lady's slipper root, bls....lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .35½- .40⅛
USP, anhydrous, dms., works lb. .33½- —
hydrous, dms., works....lb. .32 - —
Lard, cash, trcs., Chicago....lb. .0910 Nom.
Larkspur seed, bgs....lb. .20 - .25
Laurel berries, bgs....lb. .25 - .26
Leaves, Greek, bls....lb. .10 - .10½
Portuguese, bls....lb. .09½- .10
Turkish, bls....lb. .10½- .11
Yugoslavian, bls....lb. .09 - .09¼
Lauryl chloride, dms., works, frt. equald lb. .72 - —
Methacrylate, normal, dms., less than truckload, works lb. 1.00 - —
Lavender flowers, medium, bls..lb. .55 - .60
ordinary, bls....lb. .16 - .20
select, bls....lb. .50 - .80
Lead acetate, white crystals, bbls. lb. .22 - —
gran., bbls....lb. .23 - —
powd., bbls....lb. .23 - —
NF, cryst., dms....lb. .32 - .33
gran., powd., dms....lb. .32 - .33
Arsenate, dealers, acid powder, frt. alld. on 96 lbs. or 3-lb. bgs. or larger, c.l., over..lb. .27½- —
l.c.l., frt. alld....lb. .28½- —
1-lb. bgs., c.l....lb. .42½- —
l.c.l....lb. .43½- —
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld..lb. .14¾- —
l.c.l., works....lb. .15¾- —
Carbonate (see Lead, white).
Chloride, dms....lb. .45 - —
Iodide, NF, V, jars....lb. 3.82 - —
Linoleate, fused, 26.5%, dms..lb. .33½- —
Metal, pigs, prime, N. Y....lb. .14 - —
St. Louis....lb. .1380- —
Metallic paste, dms., 20,000-40,000 lbs., works..lb. .34¼- —
10,000-20,000 lbs., same basis. lb. .34¾- —
2,000-10,000 lbs., same basis. lb. .35¼- —
200-2,000 lbs., same basis.lb. .35¾- —
Prices ex whse. Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l....lb. .1512- —
l.c.l....lb. .1610- —
Naphthenate, liquid, 16% Pb, dms., dlvd..lb. .17½- —
24% Pb, dms., dlvd....lb. .23¼- —
solid, 37% Pb, dms., dlvd....lb. .31 - —
Nitrate, bbls....lb. .22¼- —
Oleate, fused, bbls....lb. .29¾- —
Orthosilicate gel, 50% PbO, dms., works..lb. .32¾- —
60% PbO, dms., works....lb. .31¾- —
Lead peroxide, powd., tech., bbls. lb. .45 - .47
Phthalate, dibasic, dms., works. lb. .42½- —
Red, 95% Pb_3O_4, or less, bbls., c.l. ship't point, frt. alld. lb. .16¾- —
l.c.l., same basis....lb. .17¾- —
97% Pb_3O_4, bbls., c.l., same basis..lb. .17 - —
l.c.l., same basis....lb. .18 - —
98% Pb_3O_4, bbls., c.l., same basis..lb. .17¼- —
l.c.l., same basis....lb. .18¼- —
Resinate, precip., dms., dlvd lb. .28½- —
Salicylate, normal, dms., works. lb. .46 - —
Stearate, dibasic, ton lots....lb. .36 - —
precip., bbls., c.l....lb. .39 - —
ton lots....lb. .40 - —
less ton lots....lb. .41 - —
Sulphate (see Lead blue; Lead white; basic sulphate)
Tallate, liquid, 16% Pb dms lb. .15½- —
24% Pb, dms....lb. .20½- —
White, basic, carbonate, bgs., c.l., ship't point, frt. alld..lb. .1625- —
l.c.l., same basis....lb. .1725- —
basic silicate, bgs., c.l., ship't point, frt. alld..lb. .15 - .1825
l.c.l., same basis....lb. .16 - .1925
basic sulphate, bgs., c.l., ship't point, frt. alld..lb. .14¾- —
l.c.l., same basis....lb. .15¾- —
Lecithin, edible, tech., bleached dms., non-ret., c.l., works. lb. .15½- .16
l.c.l., same basis....lb. .16½- .19
unbleached, c.l., same basis..lb. .14½- .15
l.c.l., same basis....lb. .16 - .18
Lemon peel, bls....lb. .20 - .26
Leucine dextro-laevo, dms., works. lb. 12.25 -15.00
Licorice extract, mass, cns....lb. .21¼- .40
powd., bbls....lb. .31¾- .50
Root, bls....lb. .05½- .10
5-lb. bundles, cs....lb. .50 - .55
powd., bbls....lb. .13 - .13¼
Lignin extract, tanning grade, bgs., c.l., works lb. .05¼- .06⅛
Lime, agricultural, bulk, works ton.14.50 - —
Chemical (quicklime) lump, pebble, bulk, Adams, Mass.ton.12.50 - —
Annville, Pa....ton.11.50 - —
Austin, Texas....ton. 9.50 - —
Bellefonte, Pa....ton.11.50 - —
Buffalo, N. Y....ton.14.00 - —
Cedar Hollow, Pa....ton.11.50 - —
Duluth, Minn....ton.12.50 - —
El Paso, Texas....ton.14.00 - —
Farnams, Mass....ton.14.00 - —
Gibsonburg, Ohio....ton.12.50 - —
Hannibal, Mo....ton.10.00 - —
Keystone, Ala....ton.10.25 - —
Kimballton, Va....ton.10.25 - —
Knoxville, Tenn....ton.10.50 - —
Lee, Mass....ton.12.50 - —
Lewisburg, Ohio....ton.10.00 - —
Limedale, Ark....ton.10.00 - —
Los Angeles, Cal....ton.25.10 -26.84
Marble Cliff, Ohio....ton.10.00 - —
Martinsburg, W. Va....ton.11.00 - —
Mosher, Mo....ton.10.25 - —
Nelson, Ariz....ton.14.50 -23.65
Quincy, Ill....ton.10.00 -13.00
Reddick, Fla....ton.13.50 - —
Scotrock, Ala....ton.10.25 - —
Springfield, Mo....ton.12.25 - —
Winooski, Vt....ton.15.50 - —
Woodville, Ohio....ton.11.50 - —
York, Pa....ton.15.50 - —
Hydrated, paper bags, Adams, Mass ton.15.50 - —
Annville, Pa....ton.14.50 - —
Austin, Texas....ton.13.00 - —
Bellefonte, Pa....ton.14.50 - —
Buffalo, N. Y....ton.16.00 - —
Cedar Hollow, Pa....ton.14.50 - —
Chicago, Ill....ton.15.00 - —
Duluth, Minn....ton.14.00 - —
El Paso, Texas....ton.17.50 - —
Engle, W. Va....ton.14.50 - —
Farnams, Mass....ton.14.00 - —
Gibsonburg, Ohio....ton.16.50 - —
Hannibal, Mo....ton.12.00 - —
Keystone, Ala....ton.13.50 - —
Kimballton, Va....ton.13.50 - —
Knoxville, Tenn....ton.13.00 - —
Lee, Mass....ton.15.50 - —
Lewisburg, Ohio....ton.14.00 - —
Limedale, Ark....ton.12.00 - —
Marble Cliff, Ohio....ton.13.50 - —
McNeil, Tex....ton.13.00 - —
Meneminee, Mich....ton.14.00 - —
Mosher, Mo....ton.12.50 - —
North Tazewell, Va...ton.12.75 - —
Quincy, Ill....ton.10.00 -12.00
Reddick, Fla....ton.16.00 - —
Scotrock, Ala....ton.13.50 - —
Springfield, Mo....ton.12.25 - —
Winooski, Vt....ton.15.50 - —
Woodville, Ohio....ton.14.50 - —
York, Pa....ton.14.50 - —
Spray, paper bgs., Adams, Mass. ton.17.00 - —
Annville, Pa....ton.17.00 - —
Austin, Texas....ton.13.00 - —
Bellefonte, Pa....ton.17.50 - —
Carey, Ohio....ton.11.00 - —
Duluth, Minn....ton.15.00 - —
Engle, W. Va....ton.14.50 - —
Farnams, Mass....ton.14.00 - —
Gibsonburg, Ohio....ton.16.50 - —
Keystone, Ala....ton.13.50 - —
Kimballton, Va....ton.13.50 - —
Lee, Mass....ton.17.00 - —
Lewisburg, Ohio....ton.16.00 - —
Marble Cliff, Ohio....ton.16.00 - —
McNeil, Tex....ton.16.00 - —
Meneminee, Mich....ton.14.00 - —
Mosher, Mo....ton.12.50 - —
North Tazewell, Va...ton.12.75 - —
Reddick, Fla....ton.16.00 - —
Rockland, Me....ton.10.00 - —
Springfield, Mo....ton.12.25 - —
Scotrock, Ala....ton.13.50 - —
Winooski, Vt....ton.17.00 - —
Woodville, Ohio....ton.16.50 - —
York, Pa....ton.15.30 - —
Lime salts (see Calcium).
Lime-ammonia nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Limestone, grd., bgs., works....ton. 3.50 - 4.00
Linalool, ex bois de rose, dms..lb. 6.30 - 6.55
ex lignaloe wood, dms....lb. 6.75 - 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms..lb. 6.30 - 6.55
96-98%, dms....lb. 6.60 - 7.10
ex petitgrain, bots....lb. 4.60 - 5.05
Lindane, 25% formulation, cns., works..lb. 2.70 - —
dms., works....lb. 2.60 - —
99%, tech., dms., works....lb. 5.75 - 7.00
Linden flowers with leaves, bls..lb. .34 - .35
without leaves, bls....lb. .40 - .41
Linseed meal expeller, 36%, bulk, Midwest mills..ton.78.00 Nom.
extracted, 36%, same basis..ton.76.00 Nom.
Litharge, com'l, powd., bbls., c.l., ship't point, frt. alld..lb. .15¾- —
l.c.l., same basis....lb. .16¾- —
Lithium benzoate, dms....lb. 1.65 - 1.67
Bromide, NF, bbls., works, frt. equald..lb. 2.10 - 2.75
Carbonate, tech., dms....lb. .80 - 1.10
Chloride, cryst., dms....lb. .95 - 1.25
Citrate, NF, bbls., dms., kgs...lb. 1.05 - 1.40
Fluoride, bbls....lb. 1.85 - 2.00
Hydride, powd., dms., works..lb. 12.00 - —
Hydroxide, monohydrate, dms..lb. .91 - 1.05
Salicylate, dms....lb. 1.60 - 1.70



Over 62 Years' Experience

Wyandotte Chemicals—with over 62 years' experience in supplying basic chemicals—offers you its valuable knowledge and the finest skilled technical service available anywhere.

There are also other advantages you'll enjoy in dealing with Wyandotte:

QUALITY! Every batch of every Wyandotte product is subjected to rigid control tests for quality, purity.

DEPENDABLE SUPPLY! Raw-material resources owned and operated by Wyandotte Chemicals—coal mines, brine wells, limestone quarries—assure you of a constant supply now and in the future.

SURE DELIVERY! Our strategic location—on major railroads, truck lines, one of the world's great waterways—assures prompt, economical delivery; tested shipping methods assure safe and pure arrival.

Take advantage of these benefits. Call your nearest Wyandotte office or write

ORGANIC CHEMICALS:
CHLORINATED SOLVENTS
ETHYLENE DICHLORIDE
PROPYLENE DICHLORIDE
GLYCOLS
DIGLYCOLS
KREELON* (ALKYLARYLSULFONATE)
CARBOSE* (SODIUM CMC)
NAXONATE* (A HYDROTROPE)
AGRICULTURAL INSECTICIDES
SYNTHETIC DETERGENTS
AROMATIC SULFONIC ACID DERIVATIVES
PLURONICS* (100% ACTIVE AGENT NONIONIC DETERGENT)

INORGANIC CHEMICALS:
SODA ASH
CAUSTIC SODA
BICARBONATE OF SODA
PURECAL* (CALCIUM CARBONATE)
CHLORINE
HYDROGEN
DRY ICE
CALCIUM CHLORIDE

* Regs. U.S. Pat. Off.

Wyandotte CHEMICALS

WYANDOTTE CHEMICALS CORPORATION
..., Michigan • Offices in Principal Cities

—World's largest manufacturer of ...ducts for business and industry

Lithopone, ordinary, bgs., c.l., dlvd. lb. .07½- —
l.c.l., dlvd. lb. .08¼- .08¼
titanated (high-strength), bgs., c.l., dlvd. lb. .10 - —
l.c.l., dlvd lb. .11 - —
Lithopone prices, Pacific Coast, 1c. per lb. higher.

Liverwort leaves, bls lb. .65 - .66
Lobelia herb, bls lb. .42 - .43
Leaves, NF lb. .75 - .76
Lobeline sulphate, bots., works oz. 33.00 -34.00
Logwood extract, crystals, No. 1, bbls., l.c.l. lb. .41 - —
No. 2, bbls., l.c.l lb. .39 - —
liquid, No. 1, bbls., l.c.l lb. .20 - —
No. 2, bbls., l.c.l lb. .19 - —
No. 3, bbls., l.c.l lb. .18½- —
solid, No. lb. .35 - —
Lovage root, imported, bls lb. .65 - .75
Lupulin, tins lb. 1.95 - 2.00
Lycopodium, cs. lb. 1.70 - 1.75
Lysine hydrochloride, dextro-laevo, bots. kilo 145.00 -149.00

M

Mace, Siauw, No. 1, bls lb. 1.00 - 1.05
West Indian, cs lb. .86 - .87
broken, cs lb. .70 - .72
Magnesia, calcined, tech., ctns. works lb. .32 - .34½
synth., rubber grade, ctns., works lb. .31 - —
USP, light, ctns lb. .34 - .36
heavy, bbls lb. .36 - .38
Magnesite, chemical grade, bgs., c.l., works, frt. equald ton. 72.50 - —
dead-burnt, bulk, c.l., standard grain, Chewalah, Wash ton. 36.30 - —
Magnesium bromide, jars lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .09¼- —
l.c.l., frt. alld lb. .10½- —
bbls., c.l., frt. equald lb. .10¾- —
l.c.l., frt. alld lb. .11¾- —
kgs., c.l., frt. equald lb. .12 - —
l.c.l., frt. alld lb. .13 - —
USP, bgs., c.l., frt. equald lb. .11¼- —
l.c.l., frt. alld lb. .12¼- —
bbls., c.l., frt. equald lb. .11¾- —
l.c.l., frt. alld lb. .12¾- —
kgs., c.l., frt. equald lb. .13 - —
l.c.l., frt. alld lb. .14 - —
Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N. Y. C. on all other destinations.

Chloride, anhyd., lump, 95-98%, drums, c.l., works, frt. equald lb. .12¾- —
l.c.l., same basis lb. .14 - .15
powd., bbls., works ton. 50.00 - —
hydrous, flake, dms., l.c.l., works ton. 49.00 -51.00
Gluconate, dms., cns lb. 1.30 - 1.37
Glycerophosphate, dms., works lb. 5.10 - 5.20
Hydroxide, NF, medicinals, bbls., dms., kgs lb. .26½- .30
Hypophosphite, dms lb. 1.60 - —
Laurate, bbls lb. .46 - .47
Metal, 99.8% ingots, cs., works lb. .24½- —
sticks, cs., works, frt. alld. on carlots lb. .42 - .44
Oleate, fused bbls lb. .31 - —
Oxide (see Magnesia calcined).
Peroxide, 15%, dms., works lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls, works lb. .12 - .14
Sulphate (see Epsom salt).
Stearate, ctns., cs lb. .38 - —
ton lots lb. .39 - —
less ton lots lb. .40 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .38 - —
1,000-lb. lots lb. .40 - —
100-lb. lots lb. .45 - —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.

Maleic anhydride, dms., c.l., dlvd. E. of Rockies lb. .37 - —
l.c.l., dlvd. E. of Rockies lb. .38 - —
Prices on maleic anhydride W. of Rockies, 1½c. higher.

Malva flowers, black, bls lb. .90 Nom.
blue, bls lb. 1.65 - 2.00
Leaves, bls lb. .35 - .38
Mandrake root, bls lb. .29 - .30
Manganese acetate, bbls, dlvd lb. .32½- —
Arsenate, bgs lb. .16 - —
Borate, tech., bbls lb. .24 - —
Carbonate, bbls., works lb. .21 - —
Chloride, anhyd., dms., works lb. .20 - .22
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., gross for net, works ton. 83.00 - —
paper-lined burlap bgs., works ton. 86.00 - —
dms., works ton. 88.50 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.
Gluconate, dms., cns lb. 1.86 - 1.93
Glycerophosphate, NF, fib. dms lb. 4.70 - 4.80
Hydrate, bbls., dlvd lb. .33¼- —
Hypophosphite, NF, dms lb. 2.00 - —
Linoleate, liquid, 4.35% Mn., dms. lb. .30½- —
solid, precip., 6.2% Mn., bbls lb. .33½- —
Metal, cs., dlvd. East lb. .30 - .32
Naphthenate, liquid 6% Mn., dms., frt. alld lb. .25 - —
Oleate, precip., bbls lb. .33½- —
Resinate, fused, 3½% Mn., dms lb. .21¾- —
precip., dms lb. .24½- —
Stearate, ctns., c.l. lb. .38 - —
ton lots lb. .39 - —
less ton lots lb. .40 - —
Sulphate, fertilizer grade, 63%, bgs., c.l., dlvd. S. E. ton. 75.50 - —
l.c.l., dlvd., S. E. ton. 82.50 - —
feed grade, 75%, bgs., c.l., dlvd. S.E. ton. 87.50 - —
l.c.l., dlvd. S. E. ton. 94.50 - —
Tallate, 6%, dms lb. .21¾- —
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock ton. 78.00 -79.00
So. American, 30% tannin, c.l., ex dock ton. 60.00 - —
Manna, flake, large, cs lb. 1.25 - 1.30
small, cs lb. .80 - .95
Mannitol, com'l, dms., works lb. .40 - .43
reagent, 50-lb. dms., works lb. .65 - —
Marjoram, Bohemian, bls lb. .23 - .23¼
Chilean, bls lb. .20 - .20½
French, bls lb. .29 - .29½
Peruvian, bls lb. .22 Nom.
Matico leaves, bls lb. .25 - .33
Melamine, bgs., ton lots, works lb. .33 - —
500 to 2,000-lb lots, works lb. .33½- —
less 500 lbs., works lb. .38½- —
Menadione, USP, bots gram .06 - .06½
Menthol, natural, USP, Brazilian, cs lb. 5.45 - —
Japanese, cs lb. 7.00 - 7.25
synthetic, USP, racemic, cns lb. 5.35 - —
Menthyl salicylate, tins lb. 4.00 - 4.25
Mercaptobenzothiazole, bgs., fib. dms, ton lots, works, frt. alld lb. .34 - .35
less ton lots, same basis lb. .36 - .37

Mercaptobenzothiazyl disulphide, bgs., fib. dms., ton lots, works, frt. alld lb. .42 - .42½
less ton lots, same basis lb. .44 - .45½
Mercury, ammoniated (see White precipitated).
Bichloride (see Corrosive sublimate).
Chloride (see Calomel).
Cyanide, NF VIII, powd., fib. dms. lb. 5.29 - —
Iodide, red, NF, fib. dms lb. 6.22 - —
yellow, NF, fib. dms lb. 6.47 - —
Metal (see Quicksilver).
Oxide, red, NF (see Red precipitate).
tech. (see Red, mercury oxide).
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms lb. 4.64 - —
Mesityl oxide, dms., c.l., dlvd lb. .13¼- .14¼
l.c.l., dlvd lb. .14 - .15
tanks, dlvd lb. .11½- .12½
Metaldehyde, dms., works lb. .95 - 1.25
Meta-aminophenol, distilled, dms., ton lots lb. 2.05 - —
less than ton lots lb. 2.50 - —
Metachloranilin, dms., works lb. .80 - —
Metacresol, 98%, dms., c.l., works lb. .73½- —
l.c.l., works lb. .74½- —
Metanitroanilin, dms., frt. alld lb. 1.05 - —
Metanitroparatoluidin, bbls lb. 1.54 - —
Metaphenylenediamine, kgs., frt. alld. lb. .90 - —
Metatoluidine, bbls., c.l., works, frt. alld lb. .78 - —
l.c.l., same basis lb. .80 - —
tankcars, same basis lb. .76 - —
Metatolylenediamine, fib. dms., frt. alld lb. .94 - 1.00

Methanol, natural, denaturing grade, dms., c.l., frt. alld gal. .78 - —
l.c.l., frt alld gal. .79 - —
tanks, frt. alld gal. .70 - —
Prices on natural methanol W. of Miss., 3c. higher.

Methanol, synthetic, Zone 1, dms., c.l., frt. alld gal. .44 - .45½
l.c.l., frt. alld gal. .49 - .50½
tanks, frt. alld gal. .32 - .32½
Zone 2, dms., c.l., frt. alld gal. .49½- —
l.c.l., ex whse gal. .54 - —
tanks, frt. alld gal. .35½- —
Synthetic methanol zones are:—Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of the U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methenamine (see Hexamethylenetetramine)
Methionine, dextro-laevo, fib. dms., frt. alld. 50-lb. or more lb. 4.55 - —
feed grade, 98%, fib., dms., same basis lb. 3.00 - —
97%, fib. dms., same basis lb. 2.97 - —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld lb. .61 - .64
Methyl abietate, non-ret. dms., c.l., dlvd., zone 1 lb. .19½- —
l.c.l., same basis lb. .20 - —
hydrogenated non-ret, dms., c.l., dlvd., zone 1 lb. .20 - —
l.c.l., same basis lb. .20½- —
Zone 2 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, natural, dms., c.l., E. of Miss., frt. alld gal. .57 - —
l.c.l., same basis gal. .58 - —
tanks, same basis gal. .45 - —
Natural methyl acetone prices W. of Miss. 3½c. per gal. higher.

Methyl acetone, synthetic, dms., c.l., dlvd. E. gal. .66½- —
l.c.l., dlvd. E. gal. .72¼- —
tanks, dlvd. E. gal. .54½- —
Synthetic methyl acetone East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory is all States West of those four.
Acrylate, dms., c.l., and truckload, works lb. .50 - —
less than truckload works lb. .50½- —
tanks, works lb. .49 - —
Alcohol (see Methanol).
Anthranilate, cns. lb. 2.35 - 2.40
extra, cns lb. 2.65 - 4.40
Benzoate, cns., dms lb. .53 - .59
Bromide, jobbers, cyls., various sizes, works lb. .47 - .61
Chloride, indust., cyl., works lb. .18 - —
tanks, multi-unit works lb. .14 - —
single-unit, works lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .39 - .43
other consumers or service men, cyls. dlvd lb. .486 - —
Cinnamate, cns. lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Formate refd., dms lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .06 - —
tanks, works lb. .07 - —
Iodide, bots., works lb. 4.00 - —
cbys., works lb. 3.50 - —
Lactate, dms., l.c.l., works lb. .35 - —

HERE'S a new corrosion-resistant finish . . . which contains its own curing agent!

With this amine-cured Epon® resin coating you can spray surfaces of any size . . . in any location . . . and, at room temperature, get toughness and corrosion resistance equal to that of finishes requiring high-temperature baking.

So easy to apply! A single heavy coat of an amine-cured Epon resin finish is practical since the finish converts itself!

Conventional finishes require several coats to build up to proper film thickness . . . because air contact is necessary for drying.

All of the advantages of Epon resins . . . extreme durability, abrasion resistance, elasticity, high corrosion resistance, and excellent cold check resistance . . . are also present in this new coating.

Drop us a line for our technical bulletin on Epon resin formulation XA-200 and samples of Epon resins.

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Methyl Methacrylate—Nitrocellulose

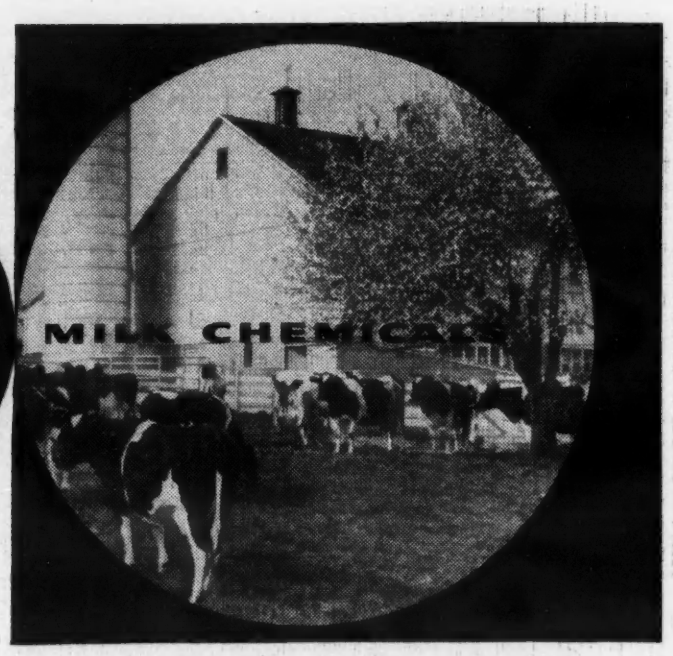
Methyl methacrylate, dms., c.l., and truckload, works lb. .36½- —
less than truckload, works lb. .37 - —
tanks, works lb. .35 - —
Parahydroxybenzoate, USP, bots. lb. 2.10 - 2.20
fib. dms. lb. 1.90 - 2.00
Roseanilin chloride, NF, fib. dms. lb. 5.40 - —
Salicylate, USP, dms., 500 lbs lb. .50 - —
cns., 50 lbs. lb. .55 - —
Testosterone, USP, 100 gms gm. 1.75 - —
Methylal, refined, 95%, dms., c.l., works lb. .11 - —
l.c.l., works lb. .12 - —
tanks, works lb. .09 - —
Methylamyl acetate, dms., c.l., dlvd. E lb. .14¾- —
l.c.l., dlvd. E lb. .15½- —
tanks, dlvd. E lb. .13 - —
Ketone, dms., works lb. 1.05 - —
Methylcellulose, special, vis., (1,500-4,000 cps.) 50-lb bgs., c.l., works lb. .78 - —
2,000 lbs., and more, same basis lb. .80 - —
smaller lots, frt. alld. on 100 lbs. .85 - .97
standard vis. (15-400 cps.), 50-lb. bgs., c.l., alld. lb. .66 - —
2,000 lbs. and more, same basis lb. .68 - —
smaller lots, frt. alld. on 100 lbs lb. .72 - .85
Methylene blue, 100-lb. lots, kgs., frt. adjusted lb 3.25 3.60
smaller lots, kgs., same basis lb. 3.40 3.60
Chloride, industrial, dms., c.l., dlvd. E lb. .13½- —
Methylethylketone, dms., c.l., dlvd. lb. .12¾- .13¾
l.c.l., dlvd. lb. .13½- .14½
tanks, dlvd. lb. .11 - .12
Methylethylpyridin, dms., c.l., works. lb. .47½- —
l.c.l. works lb. .48 - —
tanks, works lb. .46 - —
Methylheptin, carbonate, bots. lb. 35.00 -45.00
Methylionone, A, cns lb. 6.55 - 8.80
D, cns lb. 7.50 - 9.55
prime, cns lb. 4.55 - 6.40
Methylisobutyl carbinol (See Carbinol methylisobutyl).
Ketone, dms., c.l., dlvd lb. .14¾- —
l.c.l., dlvd. lb. .15½- —
tanks, dlvd. lb. .13 - —
Methylnaphthyl, ketone, cans lb. 3.00 3.75
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone, 250-lb. dms., dlvd lb. 1.60 - 1.70
less than 250 lbs., dms., dlvd lb. 1.80 - 1.90
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb. .04½- —
roofing, 20 to 80 mesh, works lb. .03⅝- —
wet-grd., biotite, bgs., c.l., works, frt. alld., E lb. .05¾- —
l.c.l., ex whse. or frt. allo. E lb. .06½- —
extra fine, bgs., c.l., works, frt. allo., E lb. .05¾- —
l.c.l., ex whse. or frt. allo. E lb. .06½- —
paint or lacq., bgs. c.l., works, frt. allo., E lb. .07¼- —
l.c.l., ex whse. or frt. allo. E lb. .08 - —
Mica, wet-grd., rubber, bgs., c.l., works, frt. allo. E lb. .07 - —
l.c.l., ex whse. or frt. allo. E lb. .07¼- —
wallpaper, bgs., c.l., works, frt. allo. E lb. .07¼- —
l.c.l., ex whse. or frt. allo. E lb. .08 - —
white, extra, fine, bgs., c.l., works, frt. allo. E lb. .07¼- —
l.c.l., ex whse. or frt. allo. E lb. .08 - —
Mica, wet-grd., W. of Miss. R., W. of Rockies, 1c. higher. ½c. higher.
Milk powder, skimmed, roller, bbls., c.l. lb. .16¾- .18¾
spray, bbls., c.l. lb. .17½- .19¾
whole, roller, bbls., c.l. lb. .34 - .36
spray, bbls., c.l. lb. .36 - .44½
Sugar, cruse, bgs., c.l., works. lb. .15 - —
edible, bgs., works, 30,000-lb. lots, works lb. .24 - —
2,000-lb. lots, works lb. .24¾- —
200-1,800-lb. lots, works lb. .25¼- —
Edible milk sugar in fib. dms., 1c. higher.
USP, fib. dms., 30,000-lb. lots, lots, works lb. .29 - —
2,000-lb. lots, works lb. .29¾- —
200-1,800-lb. lots, works lb. .30¼- —
USP milk sugar in bgs., 1c lower.
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap, feed grade, tanks, New Orleans gal. .09¾- .10½
New York gal. .11 - .11½
Molybdenum metal, 99% Mo. powd., kgs lb. 3.00 Nom.
Trioxide, pure, kgs., works, basis Mo. content lb. 1.35 - —
technical, kgs., works, basis Mo. content lb. 1.13 - 1.14
Monobutylamine, dms., c.l., E. of Rockies lb. .54¾- —
l.c.l., same basis lb. 55¾- —
tanks, same basis lb. .53 - —
Monochlorobenzene, dms., c.l., frt. allo. or dlvd. E. lb. .10½- .11¼
l.c.l., same basis lb. .11½- .12⅛
tanks, same basis lb. .09 - .10
Monochlorobenzene prices in the West, 1¼c. higher.
Monoethanolamine, dms., c.l., dlvd. E. lb. .29¾- —
l.c.l., same basis lb. .30¾- —
tanks, same basis lb. .28 - —
Monoethylnaphthylamine, dms., works lb. .88 - —
Monoethylamine, 70% contained amine, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30¼- —
Monoethylanilin, dms., c.l., frt. allo. lb. .51 - .57
l.c.l., frt. allo lb. .52 - .58
tanks, frt. allo lb. .50 - .56
Monoethylorthotoluidin, bbls lb. .80 - —
Monoisopropylamine, dms., c.l., frt. allo. E. of Rockies lb. .29½- —
l.c.l., same basis lb. .30½- —
tanks, same basis lb. .28½- —
Monomethylamine, 25%-40%, dms., c.l., works, basis 100%, lb. .35 - —
l.c.l., same basis lb. .35½- .36
tanks, same basis lb. .31 - —
Monosodium nuoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate, monobasic.
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary-butylmetacresol, dms., c.l., works lb. .49 - —
l.c.l., works lb. .50 - —
tanks, works lb. 48 - —
Morphine, cns oz. 12.40 -12.60
Acetate, anhyd., cns oz. 9.95 -10.00
Hydrobromide, cns oz. 9.90 9.95
Hydrochloride, NF, cns oz. 9.90 9.95
Sulphate, USP, cns oz. 9.90 -10.05
Morpholine, dms., c.l., dlvd. E lb. .60¾- —
l.c.l., dlvd. E lb. .61¾- —
tanks, dlvd. E lb. 59 - —
Mullein flowers, cs lb. 2.00 - 2.05
Leaves, bls. lb. .21 - .25
Musk, natural, Tonquin grains, bots. oz. 40.00 -55.00
synthetic, ambrette, 100-lb. lots, fib. dms lb. 5.35 - —
25-lb. lots, cns lb. 5.40 - —
5-lb. lots, cns lb. 5.55 - —
ketone, 100-lb. lots, fib. dms. lb. 5.30 - —
25-lb. lots, cns lb. 5.35 - —
5-lb. lots, cns lb. 5.50 - —
xylol, 100-lb. lots, fib. dms lb. 1.50 - —
25-lb. lots, cns lb. 1.55 - —
Musk root, bls lb. 1.60 - 1.65
5-lb. lots, cns lb. 1.70 - —
Mustard seed, Calif. brown, bgs., f.o.b. source lb. .12 - —
Danish, yellow, bgs lb. .11 - .11½
Dutch, yellow, bgs lb. .11 - .12
English, yellow, bgs lb. .12½- .14
German, yellow, bgs lb. .10½- .11
Japanese yellow, bgs lb. .10 - .10¼
Montana, brown, bgs., f.o.b. source. Sept.-Oct. shipment lb. .08 - —
oriental, bgs., source, Sept.-Oct. shpiment lb. .06½- —
yellow, bgs., source, Sept.-Oct. shipment lb. .09½- —
Myrobalans, J1, ord. bgs., ex dock. ton. 47.00 - —
assorted, ex dock ton. 48.50 - —
crushed, bgs., ex dock ton. 65.00 -66.00
J2, bgs., ex dock ton. No prices.

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74°, tanks, frt. equald lb. .0625- —
78°, dms., c.l., same basis lb. .0765- —
l.c.l., same basis lb. .0790- —
tanks, same basis lb. .0675- —
refined, industrial, bbls., c.l., frt. equald lb. .11¾- —
bgs., c.l., same basis lb. .11¼- —
tanks, same basis lb. .10¾- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis. lb. .14½- —
cs., 50 lbs., c.l., same basis lb. .14¾- —
1-lb. pkgs., c.l., same basis lb. .17 - —
imported, crude, 78° large lots, lb. .04¼- —
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 8.00
Neomycin, fib. dms., 100-kilo lots gm. .60 - —
1-kilo lots gm. 1.20 - —
Nepheline syenite, glass, 24 mesh, bulk, works ton. 14.25 - —
pottery, 200 mesh, bulk, works, N.Y. ton. 18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Nerolin, cns lb. 2.25 - 2.65
Niacin (see Acid nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd lb. .60 - .60½
Carbonate, bbls., dlvd lb. .66¼- —
Chloride, bbls., dlvd lb. .34½- —
Cyanide, bots., dms lb. 2.75 - 4.50
Formate, bbls., ton lots, frt. allo. lb. .58½- .59½
Metal, electro cathodes, cs., works. lb. .56½- —
Nitrate, bbls., works lb. .33½- —
Oxide, black, bbls lb. .63¼- —
Sulphate, bgs., c.l., dlvd lb. .26¼- —
l.c.l., dlvd lb. .26¾- —
Nicotinamide, USP, dms., frt. adjusted kilo. 12.00 -12.30
Hydrochloride, dms., frt. adjusted kilo. 11.50 -11.80
Nicotine sulphate, 40%, 50-lb. dms., dealers, frt. allo. over 70 lbs. dm. 49.40 - —
10-lb. tins, dealers, frt. allo. on cases of 6 tin. 10.85 - —
Niger seed, bgs, afloat lb. .11 - .11½
Nikethamide, cbys lb. 7.50 - 8.00
Nitrobenzene, dbl. dist., dms., c.l., frt. allo lb. .10½- .11⅛
l.c.l., frt. allo lb. .11½- .12⅛
tanks, frt. allo lb. .09½- .10⅛
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .33 - —
l.c.l., same basis lb. .34 - .36
18-25 cps., bbls., c.l. lb. .35 - —
l.c.l., same basis lb. .36 - .38
250-400, 600-1,000 secs., bbls., same basis lb. .42 - —
l.c.l., same basis lb. .43 - .45
spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., c.l., same basis. lb. .45 - —
l.c.l., same basis lb. .46 - .48
5-6, 40-60 secs., bbls., c.l., same basis lb. .44 - —
l.c.l., same basis lb. .45 - .47
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

Sources of new and better products for Industry and Medicine

SHEFFIELD



Milk Proteins—
for Pharmaceuticals and Foods

HIGH NITROGEN® CASEIN—30 AND 80 MESH	A specially prepared casein particularly free from non-protein impurities. Used in prepared foods and dietary supplements.
MILK PROTEIN (60%) SOLUBLE POWDER	An all-milk source powdered food containing 60% of nutritious milk protein soluble in water or milk. Can be readily made into palatable drinks. Used in special diets. Excellent, concentrated source of high-quality milk protein.
SODIUM CASEINATE EDIBLE POWDER	A spray-dried powder, this sodium salt of high-quality Sheffield casein has a bland flavor, is light in color and is readily dispersible in water. The edible quality makes it particularly suitable for use in foods and pharmaceuticals, either as a concentrated source of animal protein of high biological value or for its emulsifying and foam stabilizing properties. Uniform particle size.
CALCIUM CASEINATE EDIBLE POWDER	A water dispersible calcium salt of Sheffield casein in spray-dried form. Contains approximately 90% animal protein of high biological value. An edible product suitable for use in foods and pharmaceuticals.
POTASSIUM CASEINATE EDIBLE POWDER	A spray-dried potassium salt of Sheffield casein, edible quality—water dispersible. Contains approximately 90% protein.

For samples and literature write:

Chemical Division
SHEFFIELD
Farms Company, Inc.

MAIN SALES OFFICE, NORWICH, NEW YORK, OR
BRANCH SALES OFFICE, 1267 6th AVENUE, NEW YORK 19, N. Y.
A Division of National Dairy Products Corporation

Nitroethane, dms., dlvd. E. of Rockies, lb. .25 - —
Nitrogen solution, tanks, works, 37-40.6% N. ton.120.00 - —
Nitrogenous process tankage, bulk, works unit-ton. 5.00 Nom.
Sewage sludge, bulk, works unit-ton. 3.75 + .50
Nitromethane, dms., l.c.l., dlvd. E. of Rockies. lb. .25 - —
Nitropropane 1, dms., dlvd. E. of Rockies. lb. .23¼- —
2, dms., dlvd. E. of Rockies. lb. .25 - —
Nonylphenol, dms., c.l., works lb. .33¼- —
l.c.l., works lb. .33¾- —
tanks, works lb. .32¼- —
Nutgalls, Aleppo, bgs lb. .38 - —
Chinese, bgs lb. .32 - —
Istrian, bgs lb. .31 - —
Nutmeg, East Indian, whole, cs. lb. .34 - .35
shrivels, bgs lb. .33 - .34
West Indian, bgs lb. .31 - .31½
Nux vomica, bls lb. .10 - .12
powdered, bbls., bxs lb. .12 - .14

O

Octane, 100°-140°C., industrial grade, group 3, dms., c.l gal. .19 - —
l.c.l. gal. .21 - .60
tanks gal. .15½- —
10°C., b.r., Bayonne, N. J., tanks, gal. .18 - —
Octanol, normal, tech., dms., c.l., dlvd lb. .419 - —
l.c.l., dlvd. lb. .439 - —
tanks, dlvd lb. .394 - —
Octyl methacrylate, normal, dms., less than truckload, works, lb. .83 - —
Octylphenol, dms., c.l., works lb. .26¾- —
l.c.l., works lb. .27¼- —
tanks, works lb. .25¾- —
Oil, abies siberica, cns lb. 2.50 - 3.10
Almond, artificial, bitter (see Benzaldehyde).
natural, bitter, F.P.A., bots lb. 2.75 - 4.75
NF, bots. lb. 2.85 - 3.75
sweet, USP, dms., cns lb. .55 - .90
Allspice (see Oil, pimento).
Amyris, dms. lb. 1.75 - 2.00
Angelica root, bots lb. 80.00 -115.00
seed, bots lb. 50.00 - 95.00
Anilin (see A).
Anise, USP, Chinese, dms lb. 2.25 - 2.50
Apricot kernel, USP, dms lb. .35 - .60
Avocado, cns., dms lb. No prices.
Babassu, crude, tanks lb. No stocks
Bay, NF, Puerto Rican, 50-55%, cns lb. 1.55 - 1.90
55-60%, cns lb. 1.65 - 2.10
West Indian, 50-55%, cns., dms lb. 1.50 - 2.25
Bergamot, artif., cns lb. 2.90 - 3.00
natural, NF, Italian, cns lb. 13.50 -14.75
Birchtar, crude, cns lb. 1.50 - 2.00
rectified, NF, cns lb. 2.65 - —
Bois de rose, Brazil, dms lb. 3.90 - 4.60
Mexican (see Oil, lignaloe wood).
Bone, dms. works lb. .65 - .70
Cajeput, redist, USP, cns lb. 2.20 - 3.00
tech., cns lb. 1.85 - 2.85
Calamus, cns lb. 10.00 -20.00
Camphor sassafrassy, dms lb. .26 - .42
white, dms lb. .28 - .50
Canangа, native, cns lb. 8.75 -11.50
rectified, cns lb. 11.00 -14.50
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns lb. 3.75 - 4.25
Cardamom, NF, bots lb. 45.00 -65.00
Cassia, USP, cns., dms lb. 5.25 - 6.50
Castor, blown, dms., c.l lb. .2900- —
l.c.l. lb. .2950- —
dehydrated, bodied, dms., c.l., lb. .3210- —
l.c.l. lb. .3260- —
tanks lb. .3110- —
unbodied, dms., c.l. lb. .3060- —
l.c.l. lb. .3110- —
tanks lb. .2960- —
hydrogenated, bgs lb. .3425- .3475
No. 1, Brazilian, tanks lb. .24¾- .25
USP, dms., c.l. lb. .2700- —
l.c.l. lb. .2750- —
tanks lb. .2600- —
refined and deodorized, dms., c.l. lb. .2850- —
l.c.l. lb. .2900- —
tanks lb. .2750- —
No. 3, tech., dms., c.l. lb. .2675- —
l.c.l. lb. .2725- —
tanks lb. .2575- —
sulphonated, 50% (48% fat), dms., l.c.l. lb. .16½- .17
75% (60-62% fat), dms., l.c.l., lb. .23 - .23½
Cedarleaf, cns., dms lb. 2.25 - 2.75
Cedarwood, cns., dms lb. .50 - .70
Celeryseed, bots lb. 16.50 -21.00
Chamomile, blue, Hungarian, bots. lb. 250.00 -260.00
Chaulmoogra, NF, cns., dms lb .55 70
Chinawood (see Oil, tung)
Cinnamon bark, USP, bots lb. 25.00 -60.00
leaf, Ceylon, bots lb. 2.00 - 3.25
Citronella, Ceylon, cns., dms lb. .55 - .90
Java, true, cns lb. 1.10 - 1.90
Java type, cns lb. .45 - .85
Clove, USP, from buds, cns., dms. lb. 7.50 - 8.75
Coconut, crude, tanks, New York, lb. .14¾ Nom.
Pac. Coast lb. .13½ Nom.
refined, Cochin type, tax incl., ret., dms., l.c.l. lb. .20¼- —
deodorized, tax incl., non-ret. dms., c.l. lb. .22¼- —
Cod, Newfoundland, dms lb. .10 - .10½
Codliver, USP, dms lb. 1.55 1.65
Copaiba, cns lb. 2.00 - 2.50
Coriander, USP, bots lb. 23.00 -28.50
Corn, crude, tanks, works lb. .14¼- —
foots (soapstock), acid, 95%, tanks, N. Y lb. .04¼- —
raw, 50%, tanks, same basis. lb. .02 - —
refined, dms. lb. .18¾- .19¼
tanks lb. .17¼- —
Costus, bots. oz. 14.00 -25.00
Cottonseed, crude, tanks, Southeast lb. .13¾- —
Valley lb. .13¾- —
Texas lb. .13⅜- —
foots (soapstock), acid, 95%, tanks N. Y. lb. .02¾- —
raw, 50%, tanks, same basis. lb. .01¼- —
salad, dms lb. .18¾- .19
tanks lb. .17¼- —
Creosote (see Creosote, coaltar).
Croton, cns lb. 4.30 5.50
Crude (see Petroleum, crude).
Cubeb, cns lb. 5.25 - 6.75
Cumin, bots lb. 4.90 - 6.00
Cypress, bots lb. No stocks.
Degras (see D).
Dillseed, India, bots lb 3.53 - —
Dillweed, domestic, bots., dms lb. 3.50 - 4.25
Dip (see D).
Erigeron, cns lb. 6.50 - 7.50
Eucalyptus, NF, rectified, 80-85%, dms. lb. 1.00 - 1.50
70-75%, dms lb. .85 - 1.30
Fennel, sweet, USP, cns lb. 2.30 - 3.00
Fir, Canada, cns lb. 2.65 - 2.90
Fish, refined, alkali, dms lb. .1360- —
kettle-bodied, dms lb. .1560- —
light-pressed, dms lb. .1210- —
tanks lb. .1050- —

Oil, fishliver, crude, for feeds for concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units. .12 - .13¼
10,000 to 20,000 A units per gm., dms 1,000,000 units. .12 - .12½
25,000 to 35,000 A units per gm., dms 1,000,000 units. .12 - .12½
40,000 to 55,000 A units per gm., dms 1,000,000 units. .12 - .13
prime, nat. or conc., 100,000 A units per gm., dms. 1,000,000 units. .13 - —
200,000 A units per gm.. dms. 1,000,000 units. .15 - —
300,000 A units per gm.. dms. 1,000,000 units. .15 - —
400,000 A units per gm.. dms. 1,000,000 units. .15 - —
500,000 A units per gm.. dms. 1,000,000 units. .15 - —

Prices above are based on the USP XIV method of conversion. Morton-Stubbs Corrected E x 1900.

Fusel (see F).
Garlic, pure, bots oz. 7.25 - 8.00
Gaultheria (see Oil, wintergreen)
Geranium, Algerian, cns lb. 12.50 -20.00
Bourbon, cns lb. 12.00 -17.50
Turkish (see Oil, palmarosa).
Ginger, dist., bots lb. 15.00 -16.50
Grapefruit, dms lb. 2.50 - 2.75
Grease, No. 1, dms lb. .10½- .11¼
extra, winter, strained, dms lb. .11½- .12
prime, burning, dms lb. .12½- .13
Guaiacwood, cns lb. 1.60 - 2.10
Hemlock, cns lb. 2.10 - 2.50
Juniper berry, NF, VIII, bots lb 2.50 - 2.75
twice rectified, bots lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns lb. .65 - 1.00

Oil, lard (see Oil, grease).
Laurel, dms., cns lb 9.75 12.50
Lavandin, dms., cns lb. 3.00 - 3.25
Lavender, flower, USP, French, 30-32% ester, cns lb. 3.10 - 4.75
38-40% ester, cns lb. 4.85 - 6.75
40-42% ester, cns lb. 6.00 - 6.75
Spike, Spanish, cns lb 1.50 2.00
Lemon, USP, Calif., cns., dms lb. 6.00 - 6.30
Messina, cns lb. 5.85 - 9.50
Lemongrass, cns., dms lb. 1.00 - 1.40
Lignaloe wood, Mexican, cns lb. 3.75 - 4.50
Lime, distilled, Mexican, cns lb. 6.50 - 7.85
West Indian, cns lb. 7.40 - 8.25
expressed, West Indian, cns lb. 7.25 - 9.25
terpeneless, bots lb 45.00 -65.00
Linseed, raw, dms., c.l., N.Y. lb. .1790- —
l.c.l. lb. .1840- .1890
tankcars, f.o.b. Minneapolis lb. .1500- —
New York lb. .1625- —
tankwagon, N. Y lb. .1655- —
Boiled, linseed oil .006c. per lb. higher.
Mace, dist., cns., dms lb. 3.50 - 4.25
Mandarin, Floridian, dms lb 4.00 5.00
Italian, cns lb. 6.50 -12.00
Menhaden, crude, tanks, Balto lb. .06½- —
Mineral, white (see Oil, white, mineral).
Mirbane (see Nitrobenzene).
Mustard seed, expressed, dms lb .19¼- .19¾
synthetic, cns., dms lb. 1.70 - 1.85
Neatsfoot, 15°, dms lb. .31 - .33
20°, dms. lb. .30 - .32
30°, dms. lb. .28 - .30
Neroli, NF, French, bots lb. 216.00 -275.00
petale, bots lb. 45.00 -150.00
Nutmeg, USP dist. East Indian, cns., dms lb. 3.35 - 4.05
West Indian, cns., dms lb. 3.25 - 3.50

Oil, ocotea cymbarum, dms lb. .60 - 1.00
Oiticica, liquid, dms lb. .22½- .23¼
tankcar lb. .21½- .22¼
Oleo, extra, dms lb. .14 - .15
Olibanum, bots lb. 5.50 - 7.65
extra fine, bots lb 8.00 —
Olive, commercial, dms gal. 2.05 - —
edible, dms., duty paid gal. 2.40 - 2.50
foots, dms. lb. .15 - .15¼
Orange, sweet, dist., cns lb. .80 - .85
expressed USP Brazilian, cns., dms lb No stocks.
Calif., cns lb. 1.35 - 1.75
Florida, cns., dms lb. 1.20 - 1.55
Messina, cns lb 4.00 5.85
West Indian, cns lb 2.75 3.35
sesquiterpeneless, bots lb 175.00 180.00
Origanum, Spanish, cns lb 2.15 2.75
Palm, clarif., dms lb. .1280- —
tankcars lb. .1110- —
Palmarosa, cns lb. 7.35 - 8.40
Paraffin pale, 100-110 vis., at 100°F tanks, East Coast refinery gal .14 —
Patchouli, dms lb. 7.25 - 8.75
Peach kernel, USP (see Oil apricot kernel)
Peanut, crude, tanks, Southeast. lb. .18 - —
refined, dms lb. .22¾- .23
tanks lb. .21¼- —
Pennyroyal, USP, imported, cns lb. 2.00 - 2.40
Peppermint, natural, dms lb. 6.10 - 7.50
redist., USP dms lb. 6.60 - 8.25
Persic, USP (see Oil, apricot kernel)
Perilla, crude, dms lb No stocks.
Petitgrain, Paraguay, cns., dms lb. 2.50 - 3.10
Pimento berry, NF, dms lb. 4.70 - 5.75
leaf, cns lb. 2.35 - 2.60

Thousands of buyers know that Exchange Oil of Orange meets these qualifications consistently. They know that rigid, day-to-day laboratory control, combined with years of experience as the leader in the citrus products field, guarantees that Exchange Oil of Orange will always meet their most critical specifications.

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SUNKIST GROWERS
PRODUCTS DEPARTMENT • ONTARIO, CALIFORNIA
PRODUCING PLANT:
The Exchange Orange Products Co., Ontario, Calif.

Oil, Pine—Paraformaldehyde, Technical

Oil, pine, dest., dist., dms., extra, c.l., works gal. 75½- —
t.c.l. gal. .76½- —
whse. gal. .95½- —
steam dist. dms., ex whse., N Y.C lb. .127 - .129
Pineneedle, Siberian (see Oil, abies siberica).
Putty, petroleum dms. c.l., dlvd. lb. .11 - —
t.c.l., same basis lb. .12 - —
tanks, same basis lb. .10 - —
Rapeseed, tankcars lb. .16½- —
Red (see Acid, oleic).
Rice, bran, clarif., dms lb. .16 - —
crude, tanks, dlvd. E lb. .12 - —
Rose, natural, Bulgarian, bots oz.55.00 -62.25
Rosemary, Spanisn, tech., cns., dms lb .60 - .90
USP, cns., dms lb. .80 - 1.10
Rue, bots lb. 2.50 - 2.65
Safflower, dms., c.l., works lb. .16 - —
tanks, works lb. .15 - —
Sage, clary, bots lb.20.00 -23.00
Dalmatian, cns lb. 8.50 - 9.75
Spanish, cns lb. .90 - 1.25
Sandalwood, NF, cns lb. 9.75 -11.50
Sardine, crude, tanks Pac. coast, lb. No stocks.
Sassafras, artificial, dms lb. .55 - .70
natural Brazilian (See Oil, ocotea cymbarum).
domestic, USP, cns., dms lb. 1.90 - 2.25
Savin, cns lb. 2.75 - 3.00
Savory, cns. lb. No stocks.
Sesame, refd., dms. lb. .35½- .37
Shingle stain, tar distillate, dms., c.l., works lb. .31 - —
t.c.l., works lb. .33 - —
tanks, works lb. .21 - —
Snakeroot, Canada, cns lb 31.00 -35.00
Oil, soybean, crude, tanks, mills lb. .10⅞- —
foots (soapstock), acid, 95%, tanks, N. Y. lb. .05¼- —
raw, 50%, tanks, N. Y. lb. .02½- —
refined, alkali, dms., c.l. lb. .14⅝- —
t.c.l. lb. .15⅛- .15¼
tanks lb. .13⅛- —
clarified, dms., c.l. lb. .14⅛- —
t.c.l. lb. .14⅝- .14¾
tanks lb. .12⅝- —
salad, dms. lb. .15⅛- .15¼
tanks lb. .13⅜- —
Spearmint, USP, dms lb. 7.75 - 9.00
Sperm, bleached, winter, 45°, dms lb. .1630- .1660
tankcars lb. .1520- —
natural, winter, 45°, dms lb. .1510- .1560
tankcars lb. .1400- —
Spruce, cns., dms lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb 4.95 - 8.00
Southern, cns lb. 2.00 - 3.25
Tall, crude, tanks, works lb. .02¼- .02½
refined, dms., c.l., works lb. .06¼- .07¼
t.c.l., works lb. .06½- .07½
tanks, works lb. .05 - .06
Tallow, acidless, dms lb. .09¾- .10¼
Tansy, dms lb. 8.25 - 9.00
Tar, pine, com'l, dms., extra, c.l., works lb. .0488- —
t.c.l., works lb. .0545- —
whse lb. .0655- —
tanks, works lb. .041 - —
rectified, N.F. t.c.l., dms. ex. tra, works, South gal. .67 - —
whse. N Y.C. gal. .77 - —
Tar acid (see T).
Theobroma (see Cocoa butter).
Thyme, NF red, cns., dms lb. 1.90 - 3.75
white, cns lb 2.25 - 4.00
Oil, tung, dom., tanks, mills lb. No stocks.
imported, dms., c.l. lb. .39¾- —
t.c.l. lb. .40¼- .40½
tanks lb. .38¼- —
Turkey red (see Oil, castor, sulphonated).
Turpentine, NF, cns., dms lb. .25 - .45
Vetiver, Bourbon, cns lb.22.00 -28.50
Haitian, cns lb.17.50 -26.00
Java, cns lb.35.00 - —
Wheat germ, o-gal. dms gal.10.00 -13.00
White mineral, tech., 50-65 vis., dms., c.l. gal. .51½- .54½
t.c.l. gal. .56½- .57½
65-75 vis., dms gal. .52½- .55½
t.c.l. gal. .57½- .58½
NF, 80-90 vis., dms., c.l. gal. .53½- .56½
t.c.l. gal. .58½- .59½
125-135 vis., dms., c.l. gal. .59½- .62½
t.c.l. gal. .64½- .65½
145-153 vis., dms., c.l. gal. .66 - .68½
t.c.l. gal. .71 - .71¼
175-185 vis., dms., c.l. gal. .69½- .73
t.c.l. gal. .74½- .76
USP, 200-210 vis., dms., c.l. gal. .72½- .75
t.c.l. gal. .77½- .78
345-355 vis., dms., c.l. gal. .77 - .80
t.c.l. gal. .83 - .85
Wintergreen, USP, nat., Northern, cns. lb. 5.75 -14.50
Southern, cns lb. 3.25 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, cns. lb. 8.00 - 9.25
Wormwood, cns lb. 5.55 - 6.85
Ylang-ylang, Bourbon, bots lb.18.00 -30.00
extra, bots lb.39.25 -40.00
Madagascar, bots lb. No stocks.
Oleostearin, bbls lb. .09 - .10
Olivine aggregate, c.l., mines ton. 7.00 - 9.50
crushed 8 mesh, bulk, c.l. works ton.10.00 - —
paper, bgs, c.l., works ton.12.00 - —
Opium, USP, cns lb.19.20 -19.45
gran., USP, cns lb.21.65 -21.90
powd., USP, cns lb.21.65 -21.90
Orange, cadmium, lithopone, bbls., frt. alld. E. of Rockies lb. 1.52 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn. and N. C. E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .31 - —

Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport), 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Dinitroanilin toner lb. 1.30 —
Mineral, American, bbls., t.c.l., ship't point, frt. alld. lb. .2010- —
Molybdated, bbls lb. .44 - —
Orthonitroanilin toner, kgs lb. 1.15 - —
Persian, bbls lb. .65 - —
Orange flowers, bls lb. .55 - .56
Peel, bitter, Haitian, bls lb. .11 - .14
sweet, bls lb. .14 - .16
Oregano, Italian, bgs lb. .15 - .17
Mexican, bgs. lb. .15 - .18½
Portuguese bgs lb. .16 - .16½
Orris root, Florentine, bls lb. .20 - .22
powdered, bbls., bxs lb. .25 - .26
Verona, bls lb. .14 - .15
powdered, bbls. bxs lb. .19 - .24
Orthoaminobiphenyl, dms., c.l., works lb. .32½- —
t.c.l., same basis lb. .33 - —
tanks, same basis lb. .37 - —
Orthoanisidin bbls lb. .68 - —
Orthochloroanilin, dms., c.l. lb. .65 - .70
t.c.l. lb. .67 - .72
Orthochlorobenzaldehyde, dms., works lb. 1.18 - —
Orthochloroparanitroanilin, dms., dlvd lb. .86 - —
Orthochlorophenol dms., c.l., frt. equald lb. .34½- —
t.c.l., same basis lb. .35½- —
Orthocresol, pure, 30° C, non-ret., dms., c.l. frt. equald lb. .198 - —
t.c.l., same basis lb. .201 - —
ret. dms., c.l., same basis lb. .195 - —
t.c.l., same basis lb. .20 - —
29° C. non-ret. dms., c.l., same basis lb. .188 - —
t.c.l., same basis lb. .191 - —
ret. dms., c.l., same basis lb. .185 - —
t.c.l., same basis lb. .19 - —
24-29° C. non-ret. dms., c.l., same basis lb. .153 - —
t.c.l., same basis lb. .156 - —
tanks, same basis lb. .140 - —
Orthodichlorobenzene, dms. c.l., works, frt. alld. E. of Rockies lb. .11¼- .13¼
t.c.l., same basis lb. .12¼- .14¼
tanks, same basis lb. .09¾- .11¾
Orthoisopropyl N phenylcarbamate (see IPC).
Orthonitroanilin, dms lb. .50 - .56
Orthonitrochlorobenzene, dms lb. .20 - .21
Orthonitrobiphenyl tech. dms., c.l., works lb. .14½- —
t.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Orthonitroparachlorophenol, cns lb. .75 - —
Orthonitrophenol, bbls. works lb. .94 - —
Orthonitrotoluene, dms., c.l., frt. alld. lb. .10 - —
t.c.l., frt. alld lb. .11 - —
tanks, frt. alld lb. .09 - —
Orthophenetidin dms., works lb. 1.00 - —
Orthophenylphenol, 6lb. dms., works. lb. .20 - .44
Ortho-tertiary-amylphenol, dms., c.l., works lb. .43¾- —
t.c.l., works lb. .46¾- —
tanks, works lb. .41¾- —
Orthotoluidin, dms., c.l., works lb. .23 - —
t.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
Osage orange, crystals, No. 1, bbls., t.c.l lb. .40 - —
extract, liquid, No. 1, bbls., t.c.l lb. .19 - —
Orthotolidin (see Tolidine Base)
Ouabaine, USP bots gram. 3.00 - 4.00
Ox gall, dried, gran. or powd., dms., 5 lbs. or more lb. 4.35 - —
Oxyquinolin sulphate, cns., 100-lb. lots, works lb. 4.75 - 5.00
smaller lots, works lb. 5.28 - 5.38

P

Pancreas substance, assay 1:75 bots. lb. 5.50 - 6.00
Pancreatin, USP bots lb. 2.50 - 3.00
Panthenol, bots., works, frt. adjust. kilo.90.00 - —
Papain, powd., African, dms lb. 7.00 - 7.25
Ceylon, dms lb. 5.75 - 6.00
Papaverine, natural or synthetic hydrochloride, USP, cns., 25 oz. to 100 oz., lots oz. 5.00 - —
smaller lots oz. 5.05 - 5.20
Sulphate, cns oz. 7.10 - 7.35
Para-anisidin, dms., works lb. .88 - —
Paprika, Algerian, bgs lb. .27 - .28
Czech, bgs. lb. .26 - .27
Moroccan, bgs. lb. .24 - .25
Spanish, bgs lb. .33 Nom.
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted lb.17.50 -21.00
Para-aminophenol, dms., frt. alld lb. .97 - .98
Parachloroanilin, dms., frt. alld., E. of Miss lb. .75 - —
Parachlorobenzaldehyde, dms. works. lb. 1.34 - 1.37
Parachloro-orthonitroanilin, dms., frt. alld lb. .73 - .82
Parachlorophenol, dms., c.l., frt. equald lb. .34½- —
t.c.l., same basis lb. .35½- —
Paracresol, 98%, dms., c.l., dlvd. lb. .49 - —
t.c.l., dlvd. lb. .51 - —
Methylether, cns lb. 2.15 - 2.50
Paracymene, dms., 50-gal. lots or more, works gal. 2.50 - —
smaller lots gal. 3.00 - —
Paradibromobenzene, bgs. 500-lb. lots. lb. .55 - —
Paradichlorobenzene, dms., c.l., works lb. .14½- —
t.c.l., same basis lb. .17 - —
Paraffin, crude, scale, white, 121°-123°F, ASTM, solid, c.l., ref'y lb. .055 - —
fully refined, 122-124 ASTM, loose, c.l., rfy lb. .0745- —
125°-127°F, ASTM, loose, c.l., ref'y lb. .0745- —
130°-132°F, ASTM, loose, c.l., ref'y lb. .0755- —
132°-134°F, ASTM, loose, c.l., ref'y lb. .0755- —
135°-137°F, ASTM, loose, c.l., ref'y lb. .0755- —

Prices for paraffin in bags and ctns., c.l., 7 10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher.

Paraformaldehyde, tech., 91%, powd., bgs., c.l., frt. alld. lb. .15½- —
t.c.l., frt. alld lb. .17 - —
flake, bgs., c.l., frt. alld lb. .12 - —
t.c.l., frt. alld lb. .13½- —

five reasons why chemical men specify INLAND steel containers

1 TESTED—Every Inland container is individually tested to insure satisfactory performance in use.

2 SIZES AND STYLES—Inland containers . . . of every type used in your industry . . . are available in sizes from 3 to 58 gallons.

3 LINING RESEARCH—Inland . . . with the most experienced lining research department in the industry . . . has developed or improved container linings for hundreds of products.

4 CREATIVE DECORATION—Inland's creative staff can assist customers in developing effective container decoration—printed or lithographed—for greater sales impact.

5 SERVICE—Inland's service to users of Inland containers does not end with production and shipment. Its policy is one of complete customer satisfaction on container performance.

A SUBSIDIARY OF INLAND STEEL COMPANY

For more information write to

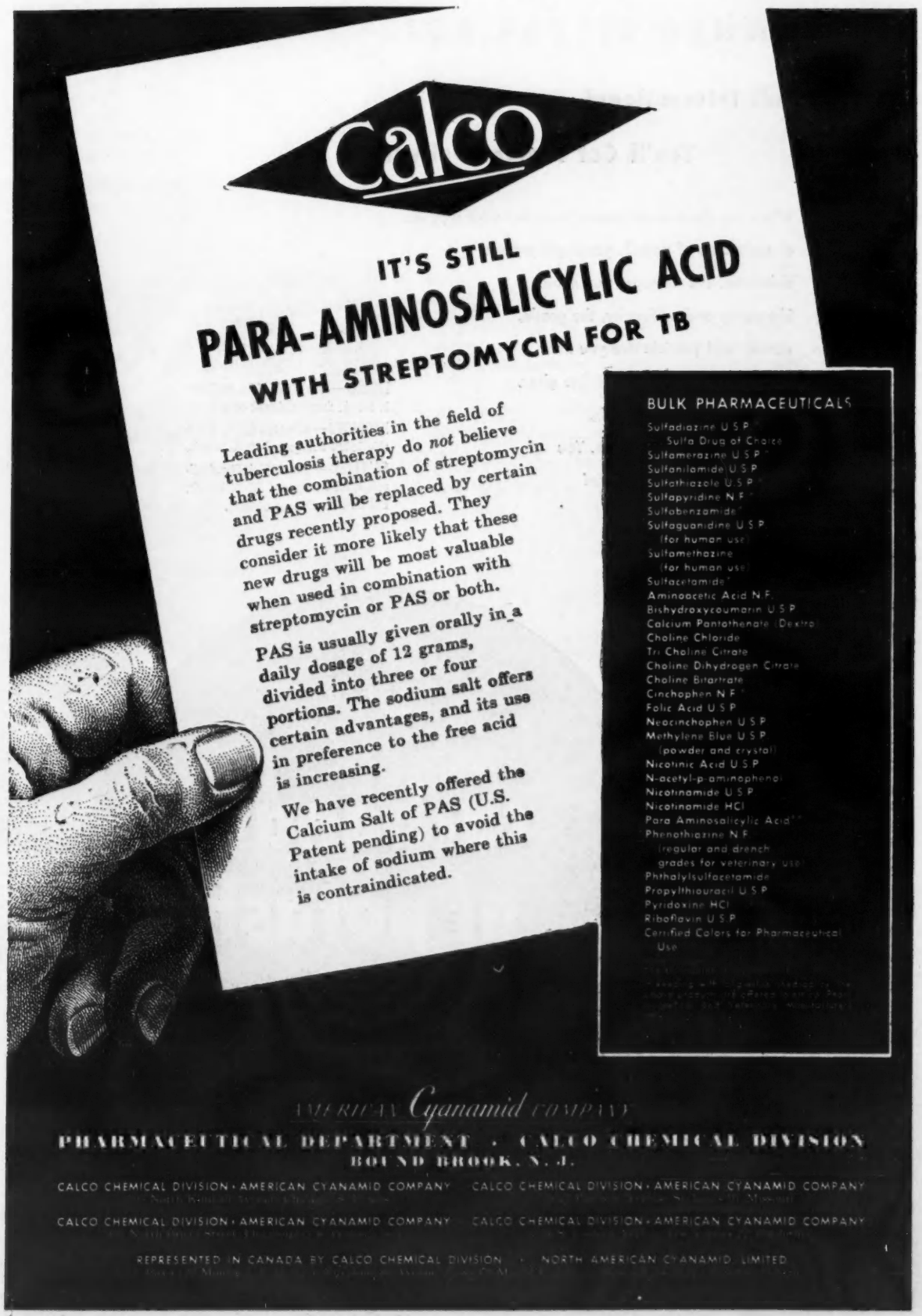
INLAND STEEL CONTAINER COMPANY

6532 SOUTH MENARD AVENUE • CHICAGO 38, ILLINOIS

Paraformaldehyde, USP X, fib. dms., c.l.	lb.	.193 -	—
10,000-lb lots	lb.	.193 -	—
1,000-lb. lots	lb.	.198 -	—
smaller lots	lb.	.208 -	—
Paraldehyde, tech., 98%, 55-gal. dms., c.l., works	lb.	.1385-	.1650
l.c.l., works	lb.	.1485-	.1750
tanks, works	lb.	.1200-	.1500
Paranitroanilin, dms., c.l., works, frt. alld	lb.	.48½-	—
l.c.l., works, frt. alld	lb.	.51½-	—
Paranitrochlorobenzene, kgs., works	lb.	.21	.22
Paranitrophenol kgs., works, frt. equald	lb.	.46 -	—
Paranitrotoluene, kgs., frt alld	lb.	.36 -	—
Paraphenetidin, dms., works	lb.	.90 -	—
Paraphenylenediamine redistilled, dms., works	lb.	2.00 -	—
tech., refd., dms., same basis	lb.	1.10 -	1.35
Paraphenylphenol, bgs., c.l., works	lb.	.57½-	—
l.c.l. same basis	lb.	.42	—
Para-tertiary-butylphenol, bgs., c.l., works	lb.	.27½	—
l.c.l., same basis	lb.	.28½-	—
Parathion, spray powder, 15%, dealers, tins	lb.	.53	.59
tech., dms., works	lb.	1.50	—
Para-tertiary-amylphenol, etns., c.l., works	lb.	.26 -	—
l.c.l., works	lb.	.27 -	—
tanks, works	lb.	.25 -	—
Paratoluenesulphonamide, flake, bbls., frt. alld	lb.	.64 -	.66
powd. bbls. works	lb.	.70 -	—
solid, bbls., frt. alld	lb.	.61 -	—
Paratoluidin, flake bbls., frt. alld.	lb.	.64	.68
solid, bbls., frt alld	lb.	.61	—
Pareira brava root, whole, bgs	lb.	.30	Nom.
ground bxs	lb.	.40	Nom.
powder, bxs	lb.	.43	Nom.
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 90 lbs. or over	lb.	.35	.36
l.c.l., same basis	lb.	.39	.67
Passion flower herb, bls	lb	.25	.29
Peanut meal, 45%, sacked, mills	ton.	92.00	-93.00
Pectin, citrous, NF, powd., bbls	lb.	2.05	2.06
tech., powd., bbls	lb.	1.50	—
Penicillin, crystalline, potassium, bulk, sterile, 1,000,000 units		.11 -	.13
Procaine, bulk, 1,000,000 units		.12 -	.15
Sodium, bulk, sterile, 1,000,000 units		.11 -	.13
Pennyroyal herb, bls	lb	.45	.50
Pentachlorophenol, dms., c.l., works, frt. equald	lb.	.21	—
l.c.l., same basis	lb.	.24	.29
truckload, 20,000 lbs. min. same basis	lb.	.21¼	—
Pentaerythritol, tech., bgs., c.l., works	lb.	.33	—
l.c.l., works	lb.	.34	.36
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).			
Pentane, industrial, tanks, group 3.	gal	12	13¼
Pepper, black, Malabar, spot, bgs	lb.	1.73 -	1.75
red, Carolina, long, bgs	lb.	.34	Nom.
Haitian, bgs	lb.	.25	.26
Japanese, hontaikas, bags	lb.	.45	Nom.
birdseyes, bags	lb.	.46 -	.47
Louisiana longs, bgs	lb.	.38 -	—
Mississippi sports, bgs., source, new crop	lb.	.38	Nom.
Mombasa, bgs.	lb.	.43 -	.44
Nigerian, bgs	lb.	.34	Nom.
Sierra Leone, bgs	lb.	.43	.44
Turkish, bgs.	lb.	.37	Nom.
Unganda, bgs	lb.	.36½-	—
white, bgs	lb.	1.58 -	1.60
Peppermint leaves, USP, bls., dms	lb.	.65 -	.66
imported, bls.	lb.	1.05	Nom.
Pepsin NF, 1:3,000, bulk	lb.	3.75	3.90
Perchloroethylene, dms. c.l., or truckloads, works	lb.	.11	—
dlvd. E	lb.	.12	—
l.c.l., works	lb.	.11½-	—
dlvd. E	lb.	.12½-	—
tanks, works	lb.	.10½-	—
Peru balsam, dms	lb.	1.40 -	2.15
Petrolatum, amber, dms., c.l., refy.	lb.	.04¾-	.05⅝
l.c.l., dlvd.	lb.	.06½-	—
tanks, refy	lb.	.03½-	.04⅛
cream, dms., c.l., refy	lb.	.06 -	.07⅛
l.c.l., dlvd.	lb.	.08¼-	—
tanks, refy	lb.	.04¾-	.05⅜
extra, amber, dms., c.l., refy	lb.	.05	.05⅞
l.c.l., dlvd.	lb.	.06¾-	—
tanks, refy	lb.	.03¾-	.04⅜
USP, white, lily, dms., c.l., refy.	lb.	.06⅝-	.07⅛
l.c.l., dlvd	lb.	.08⅝-	—
tanks, refy	lb.	.05⅛-	.06
soft, dms., c.l., refy	lb.	.06⅝-	.07¾
l.c.l., dlvd.	lb.	.08¼-	—
tanks ref'y	lb.	.05⅜-	—
snow, dms., c.l., refy	lb.	.07⅝-	.08
l.c.l., dlvd.	lb.	.09¼-	—
tanks, refy	lb.	.05⅜-	.06½
yellow, soft, dms., c.l., refy	lb.	.05	.05⅞
l.c.l., dlvd.	lb.	.06⅝-	—
tanks, ref'y	lb.	.05⅜-	—
Petroleum crude, bulk, at wells, California	bbl.	1.10	2.99
Illinois	bbl.	2.44	2.87
Kentucky	bbl.	2.42	2.83
Louisiana-Arkansas	bbl.	2.06	2.90
Montana	bbl.	1.28	2.775
Oklahoma-Kansas	bbl.	2.16 -	2.65
Pennsylvania lower field	bbl.	3.82	—
Upper field	bbl.	4.25	—
Texas, East	bbl.	2.65	—
Gulf coast	bbl.	2.35	2.95
North, North-Central	bbl.	2.23	2.65
Panhandle	bbl.	2.23	2.65
West	bbl.	2.33	2.65
Wyoming	bbl.	1.28	2.375
Fuel oil, bunker C, No. 6, California, heavy, tanks, refinery	bbl.	1.95 -	2.15
light tanks refinery	bbl.	2.00	2.25
eastern, tanks, Albany, N. Y.	bbls.	2.45 -	—
Baltimore, Md.	bbl.	2.10 -	—
Boston, Mass.	bbl.	2.15 -	—
Charleston, S. C.	bbl.	2.00 -	—
Jacksonville, Fla.	bbl.	1.97 -	—
N. Y. Harbor	bbl.	2.10 -	—
Norfolk, Va.	bbl.	2.05 -	—
Philadelphia, Pa.	bbl.	2.10 -	—
Portland, Me.	bbl.	2.15 -	—
Providence, R. I.	bbl.	2.12 -	—
Savannah, Ga.	bbl.	2.00 -	—
Diesel, tanks, refinery, California	gal.	.0825-	.115
Pennsylvania	gal.	.0925-	.1025
Furnace, tanks, refinery, Arkansas, No. 2	gal.	.08375-	—
No. 3	gal.	.08 -	—
N. Y. Harbor, No. 2	gal.	.0975 -	—
group 3, No. 1	gal.	.08125-	.0875
No. 1, straw	gal.	.09	.09375
No. 2, straw	gal.	.075 -	.08125
range	gal.	.0875-	—
Pennsylvania, western, No. 1.	gal.	.1075-	.1135
No. 2	gal.	.105 -	.112
No. 3	gal.	.105 -	.112
Lacquer diluent, California, 770-225 F., b.r., tanks, ex tax, f.o.b. Los Angeles	gal.	.167	.207
East coast, tanks, N. J. and N. Y refinery	gal.	.18 -	—
group 3, benzol-type, tanks, refinery	gal.	.13125	.13625
toluol-type, tanks, refinery	gal.	.12125-	.12375
Petroleum, mineral spirits, regular, California, tanks, ex tax, f.o.b., San Francisco	gal.	.147 -	.157
East coast, tanks N.J., N.Y.	gal.	.16 -	—
Group 3, tanks	gal.	.10875-	—
tankwagon, Baltimore	gal.	.175 -	—
Boston	gal.	.18 -	—
Buffalo	gal.	.185 -	—
Newark	gal.	.17 -	—
New York	gal.	.165 -	.17
Philadelphia	gal.	.165 -	—
Pittsburgh	gal.	.19 -	—
Providence	gal.	.185 -	—
Rochester	gal.	.20 -	—
Syracuse	gal.	.21 -	—
Washington, D. C.	gal.	.195 -	—
specially refined, tanks, f.o.b. Watson, Calif	gal.	.228 -	—
f.o.b. Bordertown, Tex.,	gal.	.24 -	—
f.o.b. Houston, Texas,	gal.	.24 -	—
f.o.b. Wood River, Ill.	gal.	.2625-	—
tank transport, f.o.b. Carteret, N. J.	gal.	.336 -	—
tankwagon, N. Y. and N. J.	gal.	.37 -	—
Naphtha, cleaners, East Coast, tanks, N. J. and N. Y. refinery	gal.	.16 -	—
Group 3 tanks	gal.	.11875-	—
tankwagon, Newark	gal.	.17 -	—
New York	gal.	.17 -	—
Philadelphia	gal.	.165 -	—
high flash, 140°, group 3, refinery tanks	gal.	.134 -	.1425
high-solvency, 205-265 b.r., 37-38° C., mixed anilin pt., tanks, refinery or East Coast	gal.	.35½-	—
25-26° C., m.a.p., tanks, same basis	gal.	.24	30½
Petroleum, naphtha, high-solvency, 270-370 b.r., 78-81° C., m.a.p., tanks, same basis	gal.	.29 -	—
49°C, m.a.p., tanks, same basis	gal.	.32 -	—
26-27 C., m.a.p. tanks, same basis	gal.	.24	.33
300-400 b.r., 28°-32° C., m.a.p., tanks, same basis	gal.	.24 -	.30½
340-410 b.r., 36° C., m.a.p., tanks, same basis	gal.	.24 -	—
32° C., m.a.p., tanks, same basis	gal.	.24 -	.30½
27° C., m.a.p. tanks, same basis	gal.	.34½-	—
350-425 b.r., 32° C., m.a.p., tanks same basis	gal.	.30½-	.31½
V.M.&P., tanks, refy, California, 245-360 b.r., Los Angeles,	gal.	.152 -	—
Portland Ore	gal.	.158 -	—
San Francisco	gal.	.157 -	—
Seattle, Wash	gal.	.158 -	—
East coast, N. J., N. Y., tanks	gal.	.17 -	—
Group 3, tanks	gal.	.11875-	—
tankwagon, Boston	gal.	.195 -	—
Newark	gal.	.185 -	—
New York	gal.	.185 -	—
Philadelphia	gal.	.180 -	—
Pittsburgh	gal	.20 -	—
Solvent, rubber, California, tanks, ex tax, San Francisco	gal.	.157 -	—
East coast, N. J., N. Y	gal.	.17 -	—
Group 3, tanks	gal.	.11875-	—
Stoddard, California, tankwagon, ex-tax, Los Angeles	gal.	.187 -	.197
East coast, N. J., N. Y., tanks	gal.	.16 -	—
Group 3, tanks	gal.	.11375-	—

Paraformaldehyde, USP X—Phenol

Petroleum, solvent, Stoddard, Pennsylvania, western, tanks,	gal.	.17 -	—
tankwagon, Boston	gal.	.18 -	—
Newark	gal.	.17 -	—
New York	gal.	.17 -	—
Philadelphia	gal.	.165	.17
Pittsburgh	gal.	.19	—
Syracuse	gal.	.21	—
Sulphonate, 70%, sulphonic content, non-ret. dms., c.l., works	lb.	.2040-	—
l.c.l., works	lb.	.2065-	—
tanks, works	lb.	.1850-	—
60-62% sulphonic content, non-ret. dms., works	lb.	.175 -	.20
l.c.l., works	lb.	.185 -	.202
tanks, works	lb.	.145 -	.185
50-55% sulphonic content, non-ret. dms., works	lb.	.155 -	—
l.c.l., works	lb.	.165 -	—
tanks, works	lb.	.125 -	—
Phenobarbital, USP dms., 100 lbs	lb.	4.50	4.70
Phenobarbital-sodium USP dms	lb.	4.50	4.70
Phenol, 90-92% (cresol, 8-10%), dms., c.l., frt. alld E of Rockies.	lb.	.19 -	—
l.c.l., same basis	lb.	.19¾-	—
tanks, same basis	lb.	.17¼-	—
82-84% (cresol 16-18%), dms., c.l., same basis	lb.	.19 -	—
l.c.l., same basis	lb.	.19¾-	—
tanks, same basis	lb.	.17¼-	—
39° or above, tar distilled, dms., c.l., same basis	lb.	.19½-	.20
l.c.l., same basis	lb.	.20¼-	.21¾
tanks, same basis	lb.	.17¼-	.19¼
USP, synthetic, dms., c.l., same basis	lb.	.21 -	—
l.c.l., same basis	lb.	.21¾-	—
tanks, same basis	lb.	.19¼-	—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IT'S STILL
PARA-AMINOSALICYLIC ACID
WITH STREPTOMYCIN FOR TB
Leading authorities in the field of tuberculosis therapy do not believe that the combination of streptomycin and PAS will be replaced by certain drugs recently proposed. They consider it more likely that these new drugs will be most valuable when used in combination with streptomycin or PAS or both.
PAS is usually given orally in a daily dosage of 12 grams, divided into three or four portions. The sodium salt offers certain advantages, and its use in preference to the free acid is increasing.
We have recently offered the Calcium Salt of PAS (U.S. Patent pending) to avoid the intake of sodium where this is contraindicated.
BULK PHARMACEUTICALS
Sulfadiazine U.S.P.
Sulfa Drug of Choice
Sulfamerazine U.S.P.
Sulfanilamide U.S.P.
Sulfathiazole U.S.P.
Sulfapyridine N.F.
Sulfabenzamide
Sulfaguanidine U.S.P.
(for human use)
Sulfamethazine
(for human use)
Sulfacetamide
Aminoacetic Acid N.F.
Bishydroxycoumarin U.S.P.
Calcium Pantothenate (Dextro)
Choline Chloride
Tri Choline Citrate
Choline Dihydrogen Citrate
Choline Bitartrate
Cinchophen N.F.
Folic Acid U.S.P.
Neocinchophen U.S.P.
Methylene Blue U.S.P.
(powder and crystal)
Nicotinic Acid U.S.P.
N-acetyl-p-aminophenol
Nicotinamide U.S.P.
Nicotinamide HCl
Para Aminosalicylic Acid
Phenothiazine N.F.
(regular and drench grades for veterinary use)
Phthalylsulfacetamide
Propylthiouracil U.S.P.
Pyridoxine HCl
Riboflavin U.S.P.
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Phenolphthalein—Potassium Silicate, Solution, Tech., 32.5° Be.

Phenolphthalein, USP, or yellow bbls., dms., 2,000-lb. lots, lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazin, NF, fib. dms., c.l., frt. adjusted lb. .50 - —
over 2,100 lbs., same basis lb. .52 - —
less than 2,100 lbs., same basis, lb. .54 - —
Phenyl acetate, dms., 100 lb. lots, works lb .50 - —
Salicylate (see Salol)
Phenylacetaldehyde solution, 50%, bots lb 2.40 2.70
100%, bots lb 4.00 4.65
Phenylacetamide 125-lb dms., works, lb. 1.10 —
smaller dms., works lb 1.15 1.10
Phenylalamine dextro-laevo, dms., works lb 27 00 -37.50
Phenylcarbethoxy pyrazolone, 250-lb fib dms., dlvd E lb 3.60 - —
less than 250-lb dms. dlvd E lb 4.00 - —
Phenyldiethanolamine, dms., c.l., frt. alld lb. .40 - —
l.c.l., frt. alld lb. .36 - .41
Phenylethanolamine, dms., c.l., works lb. .69½ - —
l.c.l., same basis lb. 70 - —
Phenylethyl acetate, dms lb. 1.20 - 1.57
Phenylethylphenyl acetate, bots lb 4.03 - 4.50
Phenylhydrazin base, CP, bots lb 3.00 3.07
Hydrochloride, commercial, kgs., works lb 1.75 —
CP, bots., works lb 5.12 - —
Phenylmethylpyrazolone, (see Methylphenylpyrazolone).

Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
C.P., bots., fib. dms lb.16.00 -17.75
tech., fib., dms. works lb.10.45 - —
Phosgene, 150-lb cyls., works lb. .27½ - —
Phosphate defluorinated (see under D)
Phosphate rock, Curacao, Atlantic ports ton.40.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70%-68%, b.p.l., c.l., same basis long ton. 4.35 - 4.40
72%-70%, b.p.l., c.l., same basis long ton. 5.00 - —
75%-74% b.p.l., c.l., same basis long ton. 6.00 - —
77%-78%, b.p.l., c.l., same basis long ton. 7.00 - —
Finely ground, 65%, b.p.l., basis 30% P_2O_5 minimum, bulk, c.l., mines short ton. 4.92 - —
68% b.p.l., basis 31% P_2O_5 minimum mines short ton. 5.28 - —
70% b p.l., basis 32% P_2O_5 minimum, mines short ton 5.83 - —
plus or minus usual bonus adjustment clause for oil and labor Prices on entirely pebble 50c per long ton higher.
Tennessee, brown, run-of-mine, unground, 27-28% P_2O_5, c.l., mines long ton. 6.45 - —
30-29% P_2O_5 c.l., mines long ton. 7.21 - —
Phosphorus, red, amorphous cs., lb. .46 - .47
dms. lb. .44 - .45
yellow, cns. lb. .30 - .37
dms., c.l. lb. .26 - —

Phosphorus oxychloride, dms., c.l., works lb. .13 - .14
l.c.l., dms., works lb. .15 - .18
tankcars, works 100 lbs. .11½ - —
Pentasulphide, solid, dms., c.l., works lb. .11½ - —
l.c.l., dms., works lb. .13 - .13½
Pentoxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .13 - .14
Sesquisulphide, tins, cs., works lb. .28 - .29
dms., export lb. .33½ - .36
Trichloride, dms., c.l., works lb. .13 - .14
l.c.l., works lb. .15 - .18
tankcars, works 100 lbs. .11½ - —
Phthalic anhydride, bgs., c.l., works, frt. equald lb. .22 - —
l.c.l., same basis lb. .23 - —
tanks, same basis lb. .21½ - —
Bbls., ½c., per pound higher.
Phthalimide, 97%-98%, dms. works, frt. alld lb. .65 - 1.10
Phthalylsulphacetamide, fiber dms., lb. 5.00 - 5.50
Pichi leaves, bgs lb. .16 - .17
Picoline (See Alpha, Beta and Gamma Picoline)
Pilocarpine hydrochloride, NF, bots oz. 5.25 6.22
Nitrate, USP, bots., vials oz. 5.10 6.20
Pimento, Guatemala, bgs lb. .20 - .20½
Jamaica, bgs. lb. .28 - .28½
Mexican, bgs. lb. .15½ - .16
Pinetar, retort, dms., incl. c.l., works lb. .0511- —
l.c.l., same basis lb. .0568- —
whse. lb. .0678- —
Pinkroot, bls. lb. 2.50 - 2.55
Piperazine hexahydrate, bots., French Codex kilo. 8.00 8.50
Piperidine, 85%, dms. frt. equald. lb. 1.65 - 1.93
98% dms., same basis lb. 1.75 - 2.60

Piperonyl butoxide, dms., dlvd. E lb. 5.00 - 5.30
Cyclonene, dms., dlvd. E lb. 4.20 - 4.50
Pipsissawa herb (see Prince's pine).
Pitch, burgundy, domestic, dms., mc., c.l., l.c.l., works 100 lbs. 9.80 -10.25
Coaltar, 140°-150° F., m.p., bbls., c.l., works ton.38.00 -39.00
l.c.l., works ton.41.00 - —
Cottonseed, dms., works lb. .07½ - .08
Hardwood, paper bgs., c.l., works, lb. .63 - —
Linseed, dms lb. .06½ - .07
Petroleum (see Asphalt, petroleum).
Pine, dms., inc., l.c.l., works, South 100 lbs. 7.50 - —
Soybean, dms., works lb. .05½ - .06
Tall, dms., works lb. .05½ - .06
Plaster of Paris (see Gypsum).
Platinum metal, works oz.90.00 -93.00
Pleurisy root, bls lb .45 - .50
Podophyllum resin, NF, dms lb.13.20 -14.00
Pokeroot, bls lb. .22 - .23
Polyoxyethylene sorbitan monostearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000 lbs., works lb. .45 - —
smaller lots, works lb. .48 - .50
Tristearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000 lbs., works lb. .45 - —
smaller lots, works lb. .48 - .50
Polystyrene, colors, special, bgs., over 20,000 lbs., frt. alld. lb. .35½ - .36
10,000-19,999 lbs., same basis lb. .36 - .36½
5,000-9,999 lbs., same basis, lb. .36½ - —
standard, bgs lb. .35½ - .36
crystals, heat-resistant, bgs., c.l., l.c.l lb. .34 - .34½
standard, bgs., c.l., l.c.l lb. .32½ - .33
Polystyrene in non-returnable fiber dms., ½c. per lb higher.

Pomegranate root, bark, bgs lb. .60 - .65
Poppy flowers, bgs lb. 1.20 - 1.25
Seed, Argentine, bgs lb. .13 Nom.
Czech, bgs. lb. .15½ Nom.
Dutch, bgs lb. .18 - .18½
Polish, bgs. lb. .15½ Nom.
Turkish, bgs. lb. .14 - .14½
Potash, caustic, low-chloride, flake, 85% basis 90% KOH, dms., c.l., works 100 lbs.10.00 - —
l.c.l., works 100 lbs.10.75 - —
liquid, 45%, dms., c.l., works, 100 lbs. 4.625 - —
l.c.l., works 100 lbs. 5.125 - —
tanks, works 100 lbs. 4.30 - —
solid, 90%, dms., c.l., works, 100 lbs. 9.40 - —
l.c.l., works 100 lbs.10.15 - —
regular, flake, 88-92%, dms., c.l., works 100 lbs. 8.50 - —
l.c.l., works 100 lbs. 9.25 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 3.875 - —
l.c.l. same basis 100 lbs. 4.65 - —
tanks, same basis 100 lbs. 3.55 - —
solid, 88-92% dms., c.l., works 100 lbs. 7.90 - —
l.c.l., same basis, works 100 lbs. 8.65 - —
Potassium abietate, dms., works lb. .25 - .28
Acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd., dms. lb. .24 - —
Bichromate, bgs., c.l., works lb. .14½ - —
l.c.l., same basis lb. .14¾ - .15⅛
Potassium bichromate in drums ½c. higher.
Bitartrate (see Cream of tartar).
Bromate, bbls., 1,000 lbs. or more, lb. .50 - .52
25-200-lb lots lb. .55 - .57
Bromide, USP, gran., bbls., kgs, lb. .34 - —
Carbonate, tech., calcined, bbls., c.l., works 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 9.30 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 7.50 - —
USP, gran., bbls., dms lb. .16½ - .18
powd., bbls., dms lb. .21 - .23
Chlorate, cryst., dms., c.l., works, lb. .09¾ - —
l.c.l., works lb. .10 - .11
powd., dms., c.l., works lb. .10¼ - —
l.c.l., works lb .10¾ - .11¾
export, dms., 1 to 10 tons, works lb. .13 - .13¾
NF, gran., dms lb. .32 - .33
Chloride, USP, cryst., dms lb. .21 - .23
gran., dms lb. .15 - .17
powd. dms lb. .24 - .26
Chromate, tech., bgs lb. .32 - .36
Citrate, USP, gran. dms lb. .37½ - .38⅛
powder dms lb. .40½ - .41⅛
Cyanide, dms, over 500 lbs., works, lb. .55 - —
under 500 lbs., works lb. .57 - —
Fluoborate, fib. dms., c.l., works, lb. .26 - —
l.c.l., works lb. .27 - —
Fluoride, dms., works lb. .24 - —
Gluconate, dms lb. .75 - .79
Glycerophosphate, 75% solution, cbys lb. 2.15 - 2.25
Guaiacolsulphonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech (see Potash caustic).
USP, pellets 100 lb dms 1 to 100 dms lb. .28½ - .33
Hypophosphite, NF, ton lots or less, fib dms lb. 1.00 - 1.03
Iodide, dms lb. 2.15 - 2.20
Manure salt, 22% K_2O, bulk, mines unit-ton. .21 —
Metabisulphite gran., dms lb. .20 - .21
powd., dms. lb. .25 - —
Muriate, dom., 50-60% K_2O, bulk, Carlsbad, N. M. unit-ton. .42 - .42
Trona, Cal unit-ton. .53 - —
50-51% K_2O, paper bgs., Carlsbad, N. M ton.25.75 - —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., rmds. lb. .30 - .32
purified, dms lb. .42 - .44
Pentoborate, gran., bgs., c.l., works ton.184.00 - —
ton lots, bbls., ex whse ton.261.00 - —
less ton lots, bbls. ex whse.ton.266.00 - —
Powdered Potassium pentoborate, $10.25 per ton higher.
Perchlorate, dms., c.l., works lb. .14 - —
l.c.l., works lb. .14½ - .15⅛
Permanganate, tech., dms., works, lb. .22½ - .23⅛
USP dms., works lb. .24¾ - .30¼
Persulphate, dms., c.l., works lb. .18 - .19
l.c.l., works lb. .20 - .22
Phosphate, tetrabasic, bbls. works, lb. .16½ - .18⅛
Prussiate, red, kgs lb. .60 - .63
yellow, dms., ton lots lb. .22½ - —
smaller quantities lb. .23 - —
kegs lb. .28 - —
Silicate, glass, bgs., c.l., works 100 lbs.14.70 - —
l.c.l. 100 lbs.15.20 - —
solution, clarified, 29° Be, 1 to 2.5 dms., c.l., works 100 lbs. 5.50 - 5.65
l.c.l., 5 dms. or more, works 100 lbs. 6.25 - 6.65
tanks, works 100 lbs. 5.15 - 5.30
tech., 29° Be., 11:2.5, dms., c.l., works 100 lbs. 4.85 - —
l.c.l., dms., works 100 lbs. 5.35 - —
tanks, works 100 lbs. 4.50 - —
32.5° Be., dms., c.l., works, 100 lbs. 4.95 - —
l.c.l., works 100 lbs. 5.45 - —
tanks, works 100 lbs. 4.60 - —

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Potassium silicate, solution, tech., 40.5° Be., 1 to 2.0, dms., c.l., works	100 lbs.	5.45	- 6.70
l.c.l., 5 dms., works	100 lbs.	5.95	- 7.85
tanks, works	100 lbs.	5.10	- 6.35
Silicofluoride, bbls., works	lb.	.09½	- .10
Stannate, dms., frt. alld. E.	lb.	.740	- .796
Sulphate, agricultural, 90-95% K_2SO_4, bulk, works, basis 90%	ton.	36.25	- —
NF VII, cryst., dms	lb.	.31	- .33
gran., dms.	lb.	.18½	- —
powder, dms.	lb.	.19	- —
Sulphocyanide, cryst., NF (see Potassium thiocyanate)			
Thiocyanate, NF, cryst., dms., tech., works	lb.	.82	- 1.08
	lb.	.77	- 79
Titanate, ctns., c.l., works	lb.	.12½	- —
5-ton lots, works	lb.	.12¾	- —
1-ton lot or less, works	lb.	.13	- —
Potassium-magnesium sulphate bulk, works basis 40% K_2SO_4, 18% MgO	ton.	16.00	- —
Potassium-sodium tartrate (see Rochelle salt)			
Potassium titanium fluoride, fib. dms., works	lb.	.35	- .38
Oxalate, bbls., cs	lb.	.85	- .95
Potassium-zirconium fluoride, fib. dms., c.l., works	lb.	.50	- —
l.c.l., works	lb.	.52½	- .55
Pregnenolone, bots	gm.	1.50	- —
Acetate bots	gm.	1.25	- —
Prickly ash bark, bls	lb.	.55	Nom.
Berries, bgs	lb.	.70	- .75
Prince's pine herb, bls	lb.	.60	- .61
Procaine hydrochloride, USP, dms., contract, 1,000 lbs. or more, works	lb.	3.40	- 3.75
spot	lb.	3.40	3.75
Progesterone, USP, 100 gms., bots	gm.	1.75	- —
Propane, commercial grade, tanks, group 3	gal.	.04	- —
Propionaldehyde, dms., 5,000 lbs. or more, custom contract	lb.	.60	- —
Propyl acetate, normal, dms., c.l., dlvd	lb.	.125	- —
l.c.l., dlvd	lb.	.135	- —
tanks, dlvd	lb.	.1075	- —
Aldehyde (see Propionaldehyde).			
Gallate, dms., 2,000 to 100 lb. lots, works	lb.	3.90	- 4.40
Parahydroxybenzoate, USP, dms	lb.	2.30	- 2.40
Propylene dichloride, dms., c.l., dlvd. E	lb.	.0845	- .095
l.c.l., same basis	lb.	.0950	- .1050
tanks same basis	lb.	.07	- .08
Oxide, dms., c.l., dlvd. E	lb.	.19½	- .20½
l.c.l., dlvd E	lb.	.20½	- .21½
tanks, dlvd E	lb.	.17½	- .18½
Propyleneglycol, industrial, dms., c.l., dlvd. E	lb.	.19¼	- .21¼
l.c.l., same basis	lb.	.20¼	- .22¼
tanks, same basis	lb.	.17½	- .18½
USP, dms., c.l., dlvd. E	lb.	.20¼	- .21½
l.c.l., same basis	lb.	.21¼	- .22¼
tanks, same oasis	lb.	.18½	- .19½
Methylether, dms., c.l., dlvd. E	lb.	.20	- —
l.c.l. same basis	lb.	.21	- —
tanks, same basis	lb.	.18½	- —
Propylthiouracil, bots., 50-kilo lots or more	kilo	55.00	- —
smaller lots	kilo	55.10	-55.30
Psyllium seed, black, bgs	lb	.27	- .30
blonde, bgs	lb	.19	- .20
husks, bgs	lb.	.50	- .51
Pulsatilla herb, bls	lb.	.52	- .53
Pumice, com. grd., coarse to fine, 0, 1, 1½, 2, 3 bgs., ton lots.	lb.	.03½	- .04¼
smaller, lots	lb.	.03⅝	- .04½
Italian, silk-screen, coarse, bags, ton lots	lb.	.06½	- —
fine, bgs., ton lots	lb.	.04	- —
sun dried, coarse, bgs ton lots	lb.	.02½	- .04
fine, bgs., ton lots	lb.	.02½	- .04
Pumice in bbls. is ½c. per lb. higher.			
Pumpkin seed bgs	lb.	.18	- .20
Pyrethrin, synthetic (see Allethrin).			
Pyrethrum flowers, fine-grd., 0.9% pyrethrins bbls. works.	lb.	.50	- —
powder, 1.3% pyrethrins, bbls., works	lb.	.71½	- —
liquid (20 to 1) basis 2 grams pyrethrins per 100cc. odorless basis, bbls., works	gal.	9.75	-10.50
(10 to 1) basis 3 grams pyrethrins per 100 cc. odorless base, bbls., works	gal.	15.75	- —
oleoresin dewaxed 20%, for aero sol bombs, dms., works	lb.	11.00	-12.00
Pyridin, denaturing, dms., c.l., works and frt. equald	gal	2.67	- —
l.c.l., same basis	gal	2.70	- —
refd., 2° non-ret. dms., c.l., same basis	lb.	89½	1.04½
l.c.l., same basis	lb.	.90	1.05
Pyridoxine hydrochloride, 100-gram bots	gram.	.55	—
Pyrites	long-ton.	No prices.	
Pyrocatechol (see Catechol).			
Pyrogallol, NF	lb.	3.25	3.43
Pyrophyllite, insecticide grade, 200 mesh, bgs., c.l., mines	ton.	13.00	-13.50
No. 3, 200 mesh, bulk, c.l., mines.	ton.	11.00	- —
rubber grade, 140 mesh, bgs., c.l., mines	ton.	11.50	-12.00
standard, 200 mesh, bulk, c.l., mines	ton.	12.50	- —
230 mesh, bulk, c.l., mines.	ton.	13.50	- —
325 mesh, bulk, c.l., mines.	ton.	16.75	- —
Standard and No. 3 pyrophyllite in paper bgs. $3 to $3.50 per ton extra.			
Pyroxylin, USP, bots	lb.	9.59	- —
Scrap, opaque, amber, cs., works,	lb.	.15	- —
black, cs., works	lb.	.12	- —
mixed mottled, cs., works	lb.	.11	- —
white, china ivory, cs., works,	lb.	.12	- —
dense cs., works	lb.	.12	- —
translucent, pastels, cs., works,	lb.	.14	- —
transparent, colorless, cs., works	lb.	.20	- —
colors, cs., works	lb.	.14	- —
shavings, opaque, amber, cs., works	lb.	.12	- —
mixed, colors, cs. works	lb.	.12	- —

Q

Quebracho extract, clarified, grd., 70% tannin, bgs., c.l.,	lb.	.16½	- .16¾
liquid, 35% tannin, bbls., works, tanks, same basis	lb.	.08¼	- —
solid, clarif., 64% tannin, bgs., c.l., exdock, duty extra	lb.	.12⅞	- —
ordinary, 63% tannin, bgs., c.l., same basis	lb.	.11 31/64	—
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.			
Queen of the meadow root, bgs	lb.	.25	- .26
Quercitron extract, crystals, No. 1, bbls., l.c.l.	lb.	.40	- —
liquid, No. 1, bbls., l.c.l.	lb.	.19	- —
Quicksilver, flasks (76 lbs. net)	flask	195.00	-196.00
Quince seed, bgs	lb.	.80	- 1.50
Quinidine, NF, V cryst., cns., 100-oz. lots	oz.	1.90	- —
powd., precip., cns., 100-oz. lots	oz.	1.85	- —
Sulphate, USP, cns., 100-oz. lots	oz.	1.25	- —
Quinine, NF, cns., 100-oz. lots	oz.	.70	- —
Bisulphate, USP cns., 100-oz. lots	oz.	.51	- —
Dihydrochloride, USP, cns	oz.	.70	- .72
Ethylcarbonate, NF, cns., 100-oz. lots	oz.	.75	- —
Hydrobromide, NF, cns. 50-oz. cns.	oz.	.63	- —
Hydrochloride USP, cns., 100-oz. lots	oz.	.63	- —
Phosphate, NF cns., 100-oz. lots	oz.	.76	- —
Salicylate, NF, cns., 100-oz. lots	oz.	.66	- —
Sulphate, USP, cns., 100-oz. lots	oz.	.56½	- —
Quinine and Urea hydrochloride, NF, cans	oz.	.68	- —
Quinolin, ret. dms., c.l., frt. equald.	lb.	.50¾	- —
l.c.l., same basis	lb.	.51¾	- —
tanks, same basis	lb.	.50	- —

R

R salt, paste, basis, 100%, dms., frt. alld.	lb.	.83	- —
powd., basis, 100%, frt. alld.	lb.	.88	- —
Raspberries, dried, bbls	lb.	1.20	- 1.25
Red, BON, arylid, deep shades, bbls.	lb.	3.60	- —
light medium shades, bbls.	lb.	2.75	- —
maroons, pure, bbls	lb.	1.75	- —
resinated, bbls	lb.	1.50	- —

Potassium Silicate, Solution, Tech., 40.5° Be.—Red Toluidin Toner

Red, cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies	lb.	4.30	- —
light shade, same basis	lb.	4.00	- —
medium shade, bbls., same basis	lb.	4.25	- —
medium-light shade, bbls, same basis	lb.	4.05	- —
orange shade, bbls., same basis	lb.	NP	- —
lithopone, deep shade, bbls., same basis	lb.	1.76	- —
light shade, bbls., same basis,	lb.	1.61	- —
maroon shade, bbls., same basis	lb.	1.85	- —
medium shade, bbls., same basis	lb.	1.71	- —
medium-light shade, bbls., same basis	lb.	1.66	- —
orange-red shade, bbls., same basis	lb.	1.57	- —

Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb. higher; all prices are lc per lb higher ex whse. Los Angeles and San Francisco.

Carmine No 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes coaltar).

Eosin toner bbls., works	lb.	1.60	- —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N Y	lb.	.12½	- —
Iron oxide, pure, 99% ferric oxide, bgs., c.l., works	lb.	.12¼	- —
l.c.l., works	lb.	.12½	- —
natural 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa.; E. St. Louis	lb.	.05¾	- —
Red, lake C, toner, alizarin, bbls., works	lb.	1.10	- 1.20
Lithol, toner, bbls., works	lb.	.76	- —
rubin, toner, pure ons., works	lb.	1.50	- —
resinated, bbls., works	lb.	1.40	- —
Virginia-type, bbls., works	lb.	1.40	- —
Maroon toner, BON, arylid, dlvd	lb.	3.60	5.90
Cadmium, deep, bbls., works,	lb.	1.20	- —
regular, bbls., works	lb.	1.10	- —
MNPT toner, kgs., works	lb.	3.60	- —
Maroons in smaller pkgs 5c. per lb. higher.			
Mercury oxide, tech., bbls., 10,000 lbs, works	lb.	4.22	- —
smaller lots, works	lb.	4.24	- —
Metallic, bbls., c.l., works	lb.	.02½	- —
l.c.l., works	lb.	.02¾	- —
Oxide (see Red, iron oxide)			
Persian gulf, bgs. c.l., works	lb.	.06¾	- —
l.c.l., works	lb.	.07	- —
Para toner, bbls	lb.	.85	- —
Chlorinated, kgs	lb.	1.10	- 1.15
Phloxin toner (see Red eosin toner).			
Rhodamine, molybdated, PMA., kegs	lb.	4.90	- —
tungstated, PTMA, works, kegs,	lb.	6.35	- —
Spanish, oxide, bbls., c.l., ex dock	lb.	.05¾	- —
l.c.l., ex dock	lb.	.06	- —
ex whse., New York	lb.	.06½	- —
Toluidin toner, deep shades, kgs., works	lb.	1.40	- —
light shades, kgs., works	lb.	1.40	- —

Whether you purchase by the drum

or carload...

NOW-AS ALWAYS-

YOU PAY NO EXTRA PREMIUM FOR NIALK® TRICHLORethylene's TOP QUALITY

Always a top quality product, NIALK TRICHLORethylene is your best buy for efficient, economical, metal degreasing. Niagara Alkali has never charged a premium price for NIALK TRICHLORethylene.

As always, you receive a high purity, high performance product with these special advantages:

- **Cleans and dries in record time**
- **Requires less power consumption**
- **Has minimum vapor loss**
- **Is non-flammable . . . stable**

Make sure your metal parts are 100% grease-free. NIALK TRICHLORethylene leaves them clean, warm, dry, ready for immediate electroplating, painting, enameling, lacquering, rustproofing, heat treating, pickling, inspection, assembling.

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60 East 42nd Street, New York 17, N. Y.

NIALK Liquid Chlorine • NIALK Caustic Potash • NIALK Carbonate of Potash • NIALK Paradichlorobenzene
NIALK Caustic Soda • NIALK TRICHLORethylene • NIAGATHAL® (Tetrachloro Phthalic Anhydride)

Red, Turkey—Sodium Chromate

Red, turkey, bbls., works	lb.	.14½ -	—
Tuscan, bbls. frt. equald	lb.	.24½ -	.25
Venetian, 15%, bgs., works	lb.	.0350-	.0375
20%, bgs., works	lb.	.04 -	—
25%, bgs., works	lb.	.0450-	—
30%, bgs., works	lb.	.0475-	—
35%, bgs., works	lb.	.05 -	—
40%, bgs., works	lb.	.0525-	—
Vermilion, Amer., bbls	lb.	.32 -	—
Quicksilver, ctns.	lb.	3.54 -	—
Watchung-type, bbls.	lb	1.95 -	—
Red KB base (see Chloro (4)-2-toluidine).			
Red precipitate, NF, powd., fib dms	lb	4.37 -	4.41
Red saunders, NF powd., bbls	lb.	.35 -	—
Rennin, NF, powder	lb	6.25 -	—
Resorcinol, tech. grade, dms., c.l., works	lb.	.82½-	—
l.c.l., works	lb	.83½-	—
USP, cryst., dms., works	lb	2.75 -	—
powd., dms., works	lb	2.95 -	—
Monoacetate, NF, dms.	lb	3.25 -	3.45
Rhatany root, bgs	lb	15 -	.16
Rhodinol, 5-lb. cans	lb	40.00	-56.00
Rhubarb root, China, whole, cs	lb.	.85 -	.86
powd., bbls	lb.	.95 -	.96
India, whole, bgs	lb.	.35 -	.36
powdered, bbls	lb.	40 -	.44
Riboflavin, USP, bots., dlvd	kilo.	125.00	- —
readily soluble, bots., dlvd	kilo.	125.00	- —
Rice bran, concentrate, dms., Cedartown, Ga	lb.	79 -	—
Rochelle salt, USP, gran., powd., dms., c.l.	lb.	.32½-	—
5,000-lb. lots, dms., c.l	lb.	.32½-	—
smaller lots	lb.	.33½-	.38½
Rose flowers, pale, bls	lb.	.45	Nom.
Rosemary flowers, bls	lb.	.95 -	.96
Leaves, French, bls.	lb.	.10 -	.10½
Portuguese, bls.	lb.	.07 -	.07½
Spanish, bls	lb.	.08½-	.09
Rosin, gum and wood (see Naval Stores, Protective Coatings market).			
Rotenone, CP, bbls., works	lb.	20.00 -	—
tech., bbls., works	lb.	16.50 -	—
Rottenstone (see Tripoli)			
Rue herb, bls	lb.	.35 -	.40
Rutin, NF, 25-kilo lots, fib, dms.	kilo.	27.50	-40.00
10 to 25-kilo lots, fib, dms.	kilo.	28.50	-40.00
1 to 10-kilo lots, fib, dms.	kilo.	30.00	-40.00
Ryania, 100% powd., bgs., works	lb.	.20 -	—

S

Sabadilla seed, powd., bbls	lb.	.70 -	—
activated, ground with lime, bbls	lb.	.41 -	.42
Saccharin, USP, gran., soluble, dms., 1000-lb. lots	lb.	1.60 -	—
smaller lots	lb.	1.70 -	1.80
powd., soluble, insoluble, dms., 1000-lb. lots	lb	1.65 -	—
smaller lots	lb.	1.75 -	1.95
Safflower, Egyptian, bls	lb	.65	70
Saffron, Mexican, bls	lb.	.95 -	.96
Spanish, USP, tins	lb.	22.00	-23.00
Safrol, dms	lb.	.72 -	1.35
Sage, Cretan, bls	lb.	.10½-	—
Cyprus, bls	lb.	.09	.09½
Dalmatian, bls	lb.	.47 -	.47½
Greek, bls.	lb.	.10¼-	.12
Officinalis, Italian, bls	lb.	.20 -	.21
Spanish, stemless, bls	lb.	.13 -	—
Syrian, bls.	lb.	.10½-	—
Turkish, bls	lb.	.12 -	.12½
Sago flour, raw, bgs	lb.	.07¼-	.07¾
refined, bgs.	lb.	.08½-	.09
Sal soda (see Soda sal).			
Salol, NF, gran., bbls., kgs	lb.	1.05 -	—
fib, dms	lb.	1.07 -	1.08
Powdered salol, 25c. higher.			
Salt, rock, paper bgs., c.l., works, 100 lbs.		.63 -	—
l.c.l.	100 lbs.	1.09 -	—
Table, vacuum, common, fine, paper bgs. c.l., works	100 lbs.	.77 -	—
l.c.l., works	100 lbs.	1.12½-	—
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis	ton.	17.00 -	—
Saltpeter, cryst, bbls., 10-ton lots, 100 lbs.		14.40 -	—
smaller lots	100 lbs.	14.65	-14.90
powd., bbls., 20-ton lots	100 lbs.	10.75 -	—
smaller lots	100 lbs.	12.00	-12.50
gran., bbls., 20-ton lots	100 lbs.	9.75 -	—
smaller lots	100 lbs.	11.10	-11.50
NF, gran., dms	lb.	09¾-	.17¾
Saltpeter in bags, 50c. per 100 lbs. less; in kegs, $1 more.			
Sandalwood chips, East Indies, bgs.,	lb.	.65 -	.66
powd., dms	lb.	.75 -	.76
Sanguinarine nitrate, bots	oz.	4.75 -	5.50
Santonin, NF, dom., dms., cryst., powd., cns	lb.	110.00	-120.00
imported, cryst., powd., cns	lb.	112.50 -	—
Saponin, No. 1, 100-lb. dm	lb	2.75 -	—
Sarsaparilla root, dom., bls	lb.	.45 -	.50
Honduras, bls	lb	.38 -	.40
Mexican, bls	lb.	.22 -	.25
Sassafras bark, ord., bls	lb.	.44 -	.45
select, bls	lb.	.55 -	.56
Savory, French, bls	lb.	.15½-	.16
Spanish, bls	lb.	.08½-	.09½
Saw palmetto berries, bgs	lb	.32 -	.38
Scammony resin, lump, cns	lb.	1.95 -	2.20
powd., cns	lb	2.05 -	2.30
Root, bgs	lb.	.11 -	.13
Schaeffers salt, paste, dms., frt. alld.	lb	.77 -	—
powder, bgs., frt. alld	lb.	.80 -	—
Scopolamine hydrobromide, bots.	oz.	14.00	-15.00
Hydrochloride, USP, bots	oz.	84.00	—
Seidlitz mixture, bbls., 5,000 lbs	lb.	30½-	—
smaller lots	lb.	.31 -	.32
Selenium powd., dms., dlvd	lb.	3.25 -	—
Senega root, bls.	lb.	2.35 -	2.40
Senna leaf, Alex., half-leaf, bls.	lb.	.22 -	.23
sifting, bgs.	lb.	.18 -	.19
Tinnevelly, No. 1, bls	lb.	.20 -	.21
No. 2, bls	lb.	.13 -	.19
No. 3, bls	lb.	.14 -	.15
powdered, bls., bxs	lb.	.17 -	.18
Pods, bls.	lb.	.35 -	—
Serpentaria root, bls	lb.	4.90 -	—
Sesame seed, Nicaragua, hulled, bgs.	lb.	.21½-	.25
natural, bgs.	lb.	.13¾-	.14
Turkish, bgs	lb.	.15 -	.15½
Shellac, bleached, bonedry, bgs., 1,500-lb. lots	lb.	.46 -	—
bbls., 1,500-lb. lots	lb.	.47 -	—
kgs., 1,500-lb. lots	lb.	.49 -	—
refined, bgs., 1,500-lb. lots	lb.	.56 -	—
bbls., 1,500-lb. lots	lb.	.57 -	—
kgs., 1,500-lb. lots	lb.	.59 -	—
Bonedry shellac prices for less than 1,500-lb lots, 1c. per lb higher for all packages.			
Lemon, No. 1, bgs.	lb.	.33 -	.36
No. 2, bgs	lb.	.30 -	.32
Superfine, bgs., 10-bg. lots	lb.	.29 -	.30
TN, bgs., 10-bg. lots	lb.	.27 -	—
Shellac in 1 to 9 bgs., 1c. more			
Shingle stain oil (see Oil, shingle stain).			
Silica, amorph., dry-grd., 325 mesh bgs., c.l., Ill., works	ton.	25.00 -	—
l.c.l., works	ton	30.00	-40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works	ton.	20.00 -	—
l.c.l., works	ton.	25.00	-30.00
140 mesh, bgs., c.l., works	ton.	15.00 -	—
l.c.l., works	ton.	20.00 -	—
Silicon tetrachloride, tech., dms., c.l., works	lb.	.16 -	—
l.c.l. works	lb	.20 -	.28½
Silver bullion, ingots, cs	oz.	.83¼-	—
Cyanide, fib, dms., 2,500-oz. lots	oz.	.75½-	—
1,000-oz. lots	oz.	.76½-	—
500-oz. lots	oz.	.76⅝-	—
100-oz. lots	oz.	.76⅝-	—
Nitrate, CP, cryst., bots., 2,500-oz. lots	oz.	.53¾-	—
1,000-oz. lots	oz.	.54⅞-	—
500-oz. lots	oz.	.55⅛-	—
250-oz. lots	oz.	.55⅛-	—
USP granular silver nitrate, 4c. per oz. higher.			
Proteinate, mild, USP, bots., dms., 1,000-oz. lots	oz.	1.05 -	—
strong, NF, bots., dms., 1,000-oz. lots	oz.	1.00 -	—
Simaruba bark, bls	lb.	.90	Nom.
Skullcap herb, Eastern, bls	lb.	.50 -	.65
Western, bls.	lb.	.30 -	.35
Skunk cabbage root, bls	lb.	.60 -	—
Slate flour, bgs., c.l., works	ton.	7.55	-13.00
l.c.l., ex whse	ton.	19.85	-27.35
Sloe berries, bgs	lb.	.24 -	.28
Smalt, black, ctns	lb.	.15 -	—
Blue, ctns	lb.	.18 -	—
Snakeroot, Canada, bls	lb.	.75 -	.80
Soapbark, bls.	lb.	.28 -	.30
crushed, bls., bbls	lb.	.33 -	.34
powd., bbls	lb.	.35 -	.37
Soda ash, dense, 58% paper bgs., c.l., works	100 lbs.	1.60 -	—
l.c.l. stock points	100 lbs.	2.85 -	4.62
bbls., c.l., works	100 lbs.	2.15 -	—
l.c.l. stock points	100 lbs.	3.35 -	4.12
bulk, c.l., works	100 lbs.	1.30 -	—
light, 58%, paper bgs., c.l., works	100 lbs.	1.50 -	—
l.c.l. stock points	100 lbs.	2.75 -	4.52
bbls., c.l., works	100 lbs.	2.05 -	—
l.c.l., stock points	100 lbs.	3.25 -	5.02
bulk c.l. works	100 lbs.	1.20 -	—
Soda caustic, flake, powd., 76%, c.l., works	100 lbs.	3.75 -	—
l.c.l. stock points	100 lbs.	4.95 -	6.77
liquid, 50%, sellers' tanks, works, dry basis	100 lbs.	2.55 -	—
50%, rayon-type, tanks, works, dry basis	100 lbs.	2.65 -	—
70% sellers' tanks, works, dry basis	100 lbs.	2.65 -	—
rayon type, tanks, works, dry basis	100 lbs.	2.75 -	—
solid, 76%, dms., c.l., works	100 lbs.	3.35 -	—
l.c.l., stock points	100 lbs.	4.55 -	5.05
Sal, bgs., c.l., works	100 lbs.	1.40 -	—
l.c.l., works	100 lbs.	1.70 -	—
Soda-lime, USP, dms	lb.	.23 -	.25
Sodium acetate, anhyd., bgs., c.l., works	lb.	.12 -	—
l.c.l., dms	lb.	.12¾-	—
NF, 60%, dms., works	lb.	.08½-	—
Alginate, refined, water-soluble, bbls., works	lb.	.83 -	—
semi-refined, bbls., works	lb.	.54 -	—
NF, white, powd., dms., ton lots, works	lb.	1.40 -	—
smaller lots	lb.	1.55 -	1.65
Antimoniate, bbls., c.l., dlvd. works	lb.	.30 -	—
l.c.l., dlvd.	lb.	.31½-	—
Arsenate, dms., c.l., works	lb.	.12½-	—
l.c.l., dms., works	lb.	.13¾-	.14¼
Arsenite, dms., c.l., works	lb.	.13½-	—
l.c.l., dms., works	lb.	.14¼-	.15¼
solution, dms., works	gal.	.70 -	1.10
Benzoate, tech., bbls., dms., 100 lbs. or more	lb.	.37½-	.39
USP, bbls., dms., 100 lbs. or more	lb.	.44½-	.46
Bicarbonate, USP, gran., bgs., c.l., works	100 lbs.	2.50 -	—
l.c.l., works	100 lbs.	3.15 -	—
powd., bgs., c.l., works	100 lbs.	2.10 -	—
l.c.l., works	100 lbs.	2.75 -	—
Bichromate, bgs., c.l., works	lb.	.11 -	—
l.c.l., same basis	lb.	.11¼-	.12
Bifluoride, bbls., c.l., works, frt. equald	lb.	.1375-	—
l.c.l., same basis	lb.	.1415-	—
Bisulphate, bulk, c.l., works.	100 lbs.	2.00 -	—
dms., c.l., works	100 lbs.	2.65 -	3.85
l.c.l., works	100 lbs.	3.05 -	3.65
Bisulphite, anhyd., bgs., c.l., works.	100 lbs.	4.05 -	—
l.c.l., works	100 lbs.	4.30 -	—
solut. 35°, bbls., c.l., works.	100 lbs.	1.40 -	—
l.c.l., works	100 lbs.	1.80 -	—
Borate (see Borax)			
Bromide, USP, bbls., kgs., works.	lb.	.34 -	.36
Cacodylate, NF, jars, dms	lb.	8.52 -	—
Carbonate, anhydrous (see Soda ash), crystalline, decahydrated (see Soda sal), monohydrated, bgs., c.l., works	100 lbs.	2.65 -	—
l.c.l., works	100-lbs.	3.05 -	—
Chlorate, cryst., dms., c.l., works.	lb.	.08¼-	—
l.c.l., works	lb.	.08¾-	.09¾
Chloride, tech (see Salt), USP, dms.	lb.	.05 -	.12
Chlorite, tech., dms., works	lb.	.58 -	.73
Chloroacetate, tech., dms., c.l., works	lb.	.24 -	—
l.c.l., works	lb.	.25 -	.26
Chromate, dms., c.l., works	lb.	.12¾-	—
l.c.l., same basis	lb.	.13 -	.13¼

DRYMET*

THE ECONOMICAL DETERGENT SILICATE

Cowles DRYMET, anhydrous sodium metasilicate, is the most highly concentrated form of sodium metasilicate available. It is more economical to use, on the basis of both Na_2O (alkalinity) and SiO_2 (silicate) than any other type of hydrated or anhydrous detergent silicate, either compounded or by itself. DRYMET contains no water of crystallization.

CRYSTAMET*

THE MEDIUM pH DETERGENT SILICATE

Cowles CRYSTAMET is a pure, perfectly white, free-flowing granular pentahydrate sodium metasilicate with the normal 42% water of crystallization. Suggested for compounding when it is desirable to lower the concentration of a finished product. Readily soluble—chemically stable—easy to handle. Can be used on medium pH jobs.

DRYORTH*

THE HEAVY-DUTY DETERGENT SILICATE

Cowles DRYORTH, anhydrous sodium orthosilicate, is a powerful, speedy, heavy-duty cleaner with valuable penetrating and wetting-out properties, reinforced dirt-removing power and unusual emulsifying action. It is an anhydrous, free-flowing powdered silicate containing not less than 60% Na_2O, which may also be used as an economical constituent of high pH cleaning compounds.

DRYSEQ*

THE ALL-PURPOSE DETERGENT SILICATE

Cowles DRYSEQ, anhydrous sodium sesquisilicate, is a medium pH alkaline cleaner which will do fast, dependable work at a low cost to the user. It is a white, free-flowing powder, quickly and completely soluble in hot or cold water—containing 56.75% Na_2O—making it an economical base material for compounding.

PROMPT SHIPMENTS FROM CONVENIENT WAREHOUSE STOCKS

We'll be glad to send you our DRYMET File Folder containing complete technical information and suggested formulations.

*Reg. U. S. Pat. Off.

Cowles CHEMICALS

COWLES CHEMICAL COMPANY

7016 Euclid Avenue • Cleveland 3, Ohio

Sodium citrate, anhyd., dms....lb. .60 - .65
USP VIII, gran., dms.....lb. .22½- .29¼
USP XIV, gran., dms.....lb. .28 - .32
Sodium citrate USP powd. prices ½c. higher.
Cyanate dms., 1,000-lb. lots., works lb. .85 - 1.10
smaller lots, works.....lb. 1.00 - 1.25
Cyanide flake, 96-98% dms., c.l., or 20,000-lb. lots lb. .168 - —
over 1,000 lbs.....lb. .178 - —
100-lb. to 1,000-lb. lots lb. .188 - —
Granular sodium cyanide 1c. higher.
Diacetate 33-35% acidity, 250-lb. dms., works lb. .14 - —
l.c.l., dms.....lb. .14¾- —
anhydrous, dms., c.l., works lb. .17 - —
l.c.l.....lb. .17¾- —
Fluoride, white, 90%, bbls., c.l., works lb. .11 - —
l.c.l., works.....lb. .1140- —
95%, bbls., c.l., works.....lb. .1125- —
l.c.l., works.....lb. .1165- —
Fluoroacetate, monobasic, 8-oz. tins, 50 to a case, works. lb.12.00 - —
2 to 25 tins to case, works lb.12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb.16.50 -21.00
Formate, bgs., c.l., dlvd....100 lbs. 7.10 - —
l.c.l.....100 lbs 8.15 - 8.45
Gentisate, 100-lb. fib dms..... lb. 8.50 - —
Gluconate, technical, bgs.....lb. .35 - —
refined technical, dms.....lb. .80 - .83
Glutamate, monobasic, dms., c.l lb. 1.67 - 1.69
smaller lots, dlvd.....lb. 1.66 - —
Glycerophosphate, NF, cryst., bbls. lb. 1.80 - 1.95
powder, bbls.....lb. 1.85 - 2.00
solution, 75%, cbys.....lb. 1.06 - 1.21
Hydride, dms., works.....lb. 2.40 - 3.00
Hydrosulphide (see Sodium sutpnydrate).
Hydrosulphite, dms., c.l., frt. alld. lb. .24½- —
l.c.l., frt. alld.....lb. .25 - —
Hydroxide, tech. (see Soda caustic).
NF, pellets, 100-lb dms., 1 to 100 dms lb. .18½- .23
Hypophosphite, NF, dms, ton lots or less lb. .95 - .98
Hyposulphite, photo grade, bgs., c.l., works..100 lbs. 4.00 - 4.25
l.c.l., same basis...100 lbs. 4.65 - 7.15
pea crystals, bgs.....100 lbs 4.50 - —
gran., bgs., c.l., works.100 lbs 5.00 - —
tech., bgs., c.l., works..100 lbs. 4.00 - —
l.c.l., works.....100 lbs. 4.40 - 6.90
Sodium, hyposulphite crystals in bbls. 50c. higher.
NF (see Sodium thiosulphate)
Iodide, USP bots. dms.....lb. 2.69 - —
Lactate, edible, 50%, dms., cbys., works..lb. .21½- —
60% dms cbys. works lb. .26½- —
tech., 50%, dms., cbys., works, lb. .16½- —
Laurylsulphate, dms., c.l., dlvd. lb. .25 - —
l.c.l., dlvd.....lb. .26 - —
tanks, dlvd.....lb. .23 - —
Metabisulphite, see sodium bisulphite
Metaborate octahydrate, gran., bgs., c.l. works ton.78.50 - —
l.c.l., ex. whse.....ton.124.50 -129.50
Sodium metaborate, octahydrate in bbls., $24.50 per ton higher.
tetrahydrate, c.l., bbls., works. ton.199.50 - —
Metal, tanks, works.....lb. .16 - —
bricks dms works.....lb. .17 - .19
Metanilate, bbls., frt. alld.....lb. .62 - —
Metasilicate annyd., bgs., c.l., works 100 lbs. 4.70 - —
l.c.l., works.....100 lbs. 4.95 - 5.45
dms., c.l.....100 lbs. 5.10 - —
l.c.l.....100 lbs. 5.30 - 5.55
Pentahydrate, bgs., c.l., works, 100 lbs. 3.80 - —
l.c.l., bgs., works....100 lbs. 4.15 - 4.55
dms., c.l., works.....100 lbs. 4.20 - —
l.c.l., works.....100 lbs. 4.55 - 4.95
Molybdate, crystals, bbls., works lb. .75 - .85
powd., anhy dms. works lb. 1.05 - 1.09
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls.....lb. .70 - —
Nitrate, crude, bgs., c.l., works. ton.51.00 - —
bulk, c.l., works.....ton.47.50 - —
imp., 100-lb. bgs., c.l., Atl., Gulf, Pac. whse ton.57.00 - —
bulk c.l., same basis ton.53.50 - —
Nitrite, bbls., c.l., works, frt. equald..lb. .07¼- —
l.c.l., same basis.....lb. .08¾- —
USP, gran., dms.....lb. .17 - —
Orthosilicate, anhyd., dms., c.l., works 100 lbs. 6.00 - —
l.c.l., works.....100 lbs. 7.60 - —
hydrated, flake, bbls., c.l., works 100 lbs. 4.75 - —
l.c.l., works.....100 lbs. 5.50 - —
Oxalate, neut., bgs., works lb. .104 - —
Para-aminobenzoate, dms., 1,000-lb. lots or more lb. 3.00 - —
smaller lots.....lb. 3.05 - 3.40
Para-aminosalicylate dms., 1,000-lb. lots., frt. adjusted. lb. 4.25 - —
smaller lots, same basis lb. 4.30 - 4.75
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald.lb. .25½- —
l.c.l., same basis.....lb. .26½- .28½
pellets, bgs., c.l., same basis..lb. .25 - —
l.c.l., same basis.....lb. .26 - 28
powd., bgs., c.l., same basis..lb. .24 - —
l.c.l., same basis.....lb. .25 - 27
Pentachloropnenate 20,000 lbs. min. truckloads ¼c. per lb. over carlot prices.
Perborate, USP, tech., bbls., c.l., works..lb. .193 - —
l.c.l., works.....lb. .198 - —
Peroxide, dms., c.l., dlvd. E. of Miss. lb. .1860- —
l.c.l., same basis.....lb. .1910- .2010
Phenolsulphonate, USP IX, gran., dms lb. .44 - .45
powd., dms.....lb. .47 - .48
Phosphate, diabasic, anhyd., bgs., c.l., works..100 lbs. 7.25 - —
l.c.l., works.....100 lbs. 7.65 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
duohydrate, bgs., c.l., works. 100 lbs. 6.65 - —
l.c.l., works.....100 lbs. 7.05 - —
monobasic, anhyd., bgs., c.l., works 100 lbs. 8.05 - 8.30
l.c.l., works.....100 lbs. 8.45 - 8.70
tribasic, cryst., bgs., c.l., works, frt. equald 100 lbs. 4.05 - 5.30
l.c.l., same basis 100 lbs. 4.45 - 8.20
Sodium phosphates in bbls. 40c. higher than bgs.
Prussiate, yellow, bgs., 10-ton lots. lb. .13½- —
smaller lots.....lb. .14 - —
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs.10.00 -10.75
ferric, dms., 1,500-lb. lots, works lb. .30 - —
smaller lots, works....lb. .31 - —
tetrabasic, anhy., bgs., c.l., works, frt. equald..100 lbs. 7.50 - —
l.c.l., frt. equald..100 lbs. 7.90 - —

Sodium salicylate, USP, dms....lb. .63 - —
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., dlvd., zone 1....100 lbs. 3.85 - 4.25
zone 2.....100 lbs. 4.11 - 4.51
zone 3.....100 lbs. 4.40 - 4.70
zone 4.....100 lbs. 5.11 - 5.50

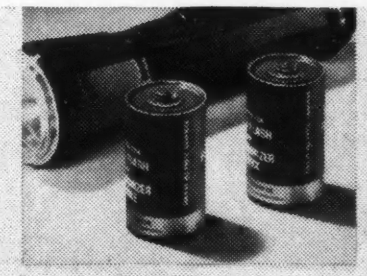
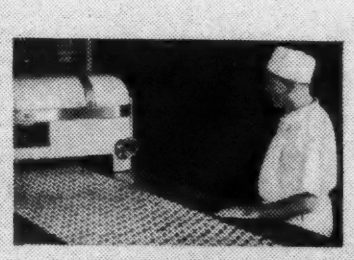
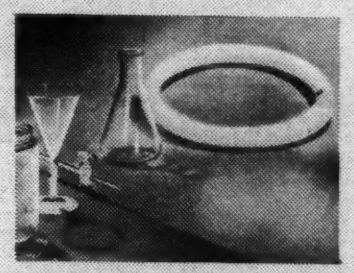
Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss. south of 31° Tex E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E of 98° Ga.; Iowa (except Davenport), Minn., Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala. La. and Miss. No. of 31°; (3) Ark. W of 98° Kan. Neb W. of 98°; N. D., Okla. S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.

bbls., c.l., works 100 lbs. 2.45 - —
Sesquisilacate, anhy., dms., c.l., works 100 lbs. 5.50 - —
l.c.l., works 100 lbs. 7.00 - —
hydrated bgs., c.l., works 100 lbs. 4.25 - —
l.c.l., bgs., works..100 lbs. 4.60 - 5.00
Silicate, liquid, 40° 1 to 3.2, turbid., dms., c.l., works 100 lbs. 1.25 - —
l.c.l., works..100 lbs. 1.60 - 2.00
tanks, works.....100 lbs. .90 - .95
47° turbid., 1 to 2.9, dms., c.l., works 100 lbs. 1.80 -1.90
l.c.l., dms., works 100 lbs. 2.15 - 2.55
tanks, works.....100 lbs. 1.45 - 1.55
52°, turbid., 1 to 2.4, dms., c.l., works..100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.45 - 2.85
tanks, works.....100 lbs. 1.75 - —
solid, bgs., works.....ton.52.50 -55.00

Sodium silicofluoride, bgs., c.l., works..lb. .070 - —
l.c.l., works lb. .075 - .075
Stannate, dms., works, frt. alld. E lb. .660 - .716
Stearate tech., dms. works...lb. .43 - .44
USP, dms., works lb. .70 - .75
Sulphanilate, bbls., works.....lb. .22 - —
Sulphate, NF, VII, dried, gran., dms lb. .22½- —
tech., anhyd., bgs., c.l., works, frt. allowance to $10. 100 lbs. 2.25 - —
l.c.l., works same basis. 100 lbs. 2.50 3.00
cryst. (see Glauber's salt)
rayon grd. bgs., c.l., works. ton.27.00 - —
l.c.l. works.....ton.33.00 - —
USP, cryst., fib dms.....lb. .17½ .18
gran., fib dms.....lb. .17½- .18
Sulphide, flake bbls., c.l., works, E., frt. equald ton.100.00 - —
l.c.l., same basis ton.108.00 - —
fused, bbls., c.l., works, E frt. equald ton.88.50 - —
l.c.l., same basis ton.98.50 - —
Sulphite anhyd., bgs., c.l., works 100 lbs. 2.73 - —
l.c.l., same basis 100 lbs. 2.33 5.58
regular, cryst., bgs. c.l., works. 100 lbs. 4.80 - —
l.c.l., same basis 100 lbs. 5.20 6.45
powder, bbls., c.l., works 100 lbs 6.75 - —
l.c.l., works 100 lbs. 7.25 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls.....lb. No prices.
Sulphydrate, flake, 70-72%, dms., works, c.l. ton.115.00 - —
l.c.l., works ton.125.00 - —
liquid 34-40%, 100% basis, tanks, works ton100.00 -117.60

Sodium Citrate—Sodium-Cinchophen

Sodium tetraborate (see Borax).
Tetrasulphide, liquid, 40%, dms., c.l., works lb. .03¼- —
l.c.l., works.....lb. .03¾- —
Thiocyanate, CP, dms.....lb. .55 - .65
tech., dms. works.....lb. .30 - —
Thiosulphate, NF, cryst., bbls lb. .12½- —
tech (see Sodium hyposulphite).
Titanate, ctns., c.l., works lb. .10½- —
5 tons, works.....lb. .10¾- —
1 ton or less, works.....lb. .11 - —
Trichloroacetate 90%, 100-lb. dms., c.l., frt. alld., E lb. .37½- —
l.c.l., frt. adjusted, E lb. .39¼- —
50-lb. dms., c.l., frt. alld., E lb. .38 - —
l.c.l., frt adjusted, E lb. .40 - —
10-lb. ctns., c.l., frt. alld., E lb. .44 - —
l.c.l., frt. adjusted, E lb. .46 - —
Prices West of the Rockies are 1¾c. per pound higher
Tripolyphosphate, bgs., c.l., works, frt. equald..100 lbs. 7.85 - —
l.c.l., same basis.....100 lbs. 8.25 - —
Trisilicate, powd., 1:3.2, bgs., c.l., works..100 lbs. 7.75 - —
l.c.l., works.....100 lbs. 8.50 - 8.90
dms., c.l., works.....100 lbs. 8.15 - —
l.c.l., works.....100 lbs. 8.90 - 9.30
Tristearate fib. dms., 20,000 lbs. works lb. .33 - —
10,000 to 20,000 lbs., works lb. .35 - —
smaller lots, works lb .38 - .40
Tungstate, tech., kgs., dlvd. E lb. 3.15 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethylcellulose. See CMC.
Sodium-cinchopnen (see Cinchophen-sodium).

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SODIUM NITRITE U.S.P.

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Soda Ash
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Chlorine
Ammonium Chloride
Ammonium Bicarbonate
Caustic Potash
Potassium Carbonate
Sodium Nitrite
Calcium Chloride
Sodium Bicarbonate
Para-dichlorobenzene
Ortho-dichlorobenzene
Monochlorobenzene
Specialty Cleansers

Sodium-Formaldehyde Sulphoxylate—Terpinyl Propionate

Sodium-formaldehyde sulphoxylate, c.l., dms., dlvd..lb. .25½- —
i.c.l., same basis ..... lb. .26 - —
Sodium sulpha, drugs (see Sulpha name).
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works lb. .28 - —
less than 1,000 lbs., same basis lb. .30 - —
Solvent naphtha, coaltar, refined, tanks, works gal. .31 - .32
high-flash, tanks, works gal. .31 - .32
petroleum, 100°F., tanks, Baytown, Tex gal. .31 - —
Bayonne ..... gal. .35 - —
150°F., flash, tanks, Baytown, Tex gal. .31 - —
Sorbitan monostearate, fib. dms., 20,000 lbs., works lb. .32 - —
10,000 to 20,000 lbs., works lb. .34 - —
smaller lots, works lb. .37 - .39
Sorbitol, cryst. pellets, dms., c.l., works lb. .30 - —
ton-lots to 5 tons, works lb. .32 - .33
powd., dms., ton lots to 5 tons, works lb. .38 - .39
solution, commercial, aqueous, dms., c.l., works .... lb. .24¼- —
ton lots, works lb. .25 - —
less ton lots, works lb. .25¼- —
tanks, works ..... lb. .23¼- —
regular, 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots, works lb. .16¾- —
less ton lots, works lb. .17 - —
tanks, works ..... lb. .15 - —
Soybean meal, 41% bulk, Decatur, ton.79.00 -80.00
protein chemically isolated 40,000 to 60,000 lbs., dlvd lb. .23½- —
20,000 to 40,000 lbs., same basis lb. .23¾- —
100 to 20,000 lbs., same basis lb. .24¼- —
mechanically refined, bgs., 40,000 lbs., same basis lb. .0605- —
20,000 lbs., same basis .. lb. .0620- —
smaller lots same basis.. lb. .0635- —
Sparteine sulphate, cns..... oz. .85 - 1.25
Spearmint leaves, bls..... lb. .60 - .65
Spikenard root, bls..... lb. .45 - .46
Spruce extract liq. reg., tanks, works lb. .01¾- —
powd. super bgs., c.l., works. lb. .05½- —
l.c.l., works ..... lb. .05¾- —
Squaw vine leaves, bls ..... lb. .45 - .46
Squill red fortified powd., bbls. boxes lb. 1.60 - —
white, bls. ..... lb. .12 - .15
powd., bbls., bxs..... lb. .18 - .21
St. John's bread edible, bls..... lb. .10 - 13
Stannous chloride (see Tin chloride stannous)
Star root (see Helonias root)
Stargrass root (see Aletris root)
Starch, corn, pearl, paper bgs., c.l., N. Y. 100 lbs. 7.29 - —
l.c.l. ..... 100 lbs. 7.44 - —
powd., paper bgs., c.l. 100 lbs. 7.41 - —
l.c.l. ..... 100 lbs. 7.47 - —
Prices for corn starch in cotton bags 25c. per 100 lbs. higher.
Starch, potato, dom., Irado, bgs., c.l., works..lb. .06½ Nom.
Maine, bgs, c.l., works.....lb. .10¾- .11
l.c.l., spot.....lb. .11 - .12
imported, bgs., l.c.l.....lb. .10 - .11
Rice, l.c.l., bgs.....lb. .11 - .12¼
Wheat, bgs .....lb. .0675- .0710
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .30 - .31
Stoneroot, bls.....lb. .07½- .08
Storax, USP, cs.....lb. 1.25 - —
Stramonium leaves, bgs.....lb. .16 - .18
Streptomycin, either hydrochloride or sulphate, bulk..gram. .24 - —
Strontium bromide, NF, cns., dms. lb. .77 - .78
Carbonate, 92%, dms.....lb. .23 - —
Chloride, tech., bbls .....lb. .24 - .26
Chromate, bbls., works .....lb. .46 - —
Iodide jars, 25-lb. lots .....lb. 3.37 - —
Nitrate, bbls., cs, works.....lb. .10¼- .11
Oxalate, bbls., works .....lb. No prices.
Salicylate, NF dms .....lb. 1.65 - —
Sulphate, air floated, 90%, 325 mesh bgs., works ton.56.70 -66.15
Strontium-calcium sulphide phosphorescent, dms., works lb. 2.80 - 2.85
Strophanthin, NF, bots .....oz.25.00 -25.50
Strophanthus seed, Komba, bgs. lb. 3.00 - 3.25
Strychnine, NF, powd., cans., 100 ozs. oz. 1.25 - —
Phosphate, NF, 100 ozs .....oz. 1.14 - —
Sulphate, USP, powd., cans, 100 ozs oz. 1.00 - —
Styrene monomer, dms., c.l., works lb. .22¼- —
l.c.l., works.....lb. .23¼- —
tanks, works .....lb. .21 - —
Styrolyl acetate, bots.....lb. 1.47 - 1.75
Sucrose octa-acetate, denaturing grd., 100-200-lb. bgs., l.c.l., works lb. .71 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms.....lb. 4.00 - 4.50
Sodium, dms.....lb. 4.10 - 4.60
Sulphacetamide, fiber dms .....lb. 4.00 - 4.20
Sodium, fib. dms.....lb. 5.00 - 5.20
Sulphadiazin, USP, microcrystals, dms lb.10.60 -11.10
powder, dms.....lb.10.25 -10.75
Sulphadiazin-sodium, USP, dms .lb.11.25 -11.75
micro crystals, dms.....lb.10.60 -11.10
Sulphaguanidin, USP, dms..... lb. 4.50 - 5.00
Sulphamerazin, USP, micro crystals. lb.10.65 -11.15
Sulphamerazin-sodium, USP, dms., lb.11.25 -11.75
Sulphamethazine, micro crystals, dms lb. 8.90 - 9.40
powder, dms..... lb. 8.50 - 9.00
Sulphanilamide, USP, 30-80 mesh, dms lb. 1.40 - 1.60
microcrystals, dms ..... lb. 1.70 - 1.90
powder, dms ..... lb. 1.30 - 1.50
Sulphanilamidoquinoxaline, veterinary, dms lb. 6.50 - 6.75
Sulphapyridin, NF, powd. bots., tins. lb. 7.00 - 7.50
Sulphapyridin-sodium monohydrate, dms lb. 7.50 - 8.00
Sulphathiazole, USP, micro crystals, dms lb. 3.85 - 4.15
powder, dms ..... lb. 3.50 - 3.80
Sulphathiazole-sodium, USP, dms., lb. 3.50 - 3.80
Sulphur, commercial, flour, bgs., mines 100 lbs. 2.05 - —
bbls., mines ..... 100 lbs. 2.20 - —
lump, bgs., mines ..... 100 lbs. 1.70 - —
bbls, mines ..... 100 lbs. 2.00 - —
crude, bulk, c.l., mines, contract. long ton.21.00 -22.00
f.o.b. vessels Gulf ports, ex-port long ton.25.00 -27.50
domestic and Canada long ton.22.50 -23.50
refined, flowers, USP, bgs, mines. 100 lbs. 2.60 - —
bbls. ..... 100 lbs. 4.75 - —
flour, light, bgs., mines 100 lbs. 3.35 - —
bbls., mines ..... 100 lbs. 4.25 - —
lump, bgs., mines.....100 lbs. 2.90 - —
rolls, bgs., mines.....100 lbs. 3.35 - —
bbls., mines 100 lbs. 3.80 - —
salt block, bgs., mines 100 lbs. 3.10 - —
virgin block bbls., mines 100 lbs. 3.05 - —
rubbermakers, com'l, regular bgs., mines..100 lbs. 2.25 - —
bbls., mines 100 lbs. 2.40 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.25 - —
bbls. mines 100 lbs. 3.40 - —
refined, bgs., mines 100 lbs. 2.85 - —
bbls., mines 100 lbs. 2.95 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.85 - —
bbls., mines ..... 100 lbs. 3.80 - —
10% pine tar, bgs. mines. 100 lbs. 3.65 - —
Dichloride, dms., c.l., works, frt. equald lb. .03½- —
washed, NF, bot ..... lb. .11 - —
l.c.l., same basis ..... lb. .04¼- —
tankcars, same basis..... lb. .03¼- —
Dioxide liquid, com'l, cyls., works lb. .09 - —
multi unit cars, works lb. .0535- —
tanks, works ..... lb. .045 - —
refrigeration cyls., l.c.l., dlvd. lb. .20 - .36
Monochloride, 55-gal. dms., c.l., frt. equald lb. .03½- —
l.c.l., same basis ..... lb. .04¼- —
tanks, same basis ..... lb. .03¼- —
Sumac leaf, 28%, bgs., ex-dock, short-ton.115.00 - —
ground, same basis .....ton.115.00 - —
Superphosphate, run-of-pile, under 22% a.p.a., pulv., bulk, Baltimore unit-ton. .86 - —
Carteret, N. J unit-ton. .86 - .88
triple, 48% or more, a.p.a., pulv., bulk, East Tampa, Fla unit-ton. .91 - —
Sweet basil, California, bgs..... lb. 1.05 - 1.10
imported, bgs. .....lb. .60 - .61

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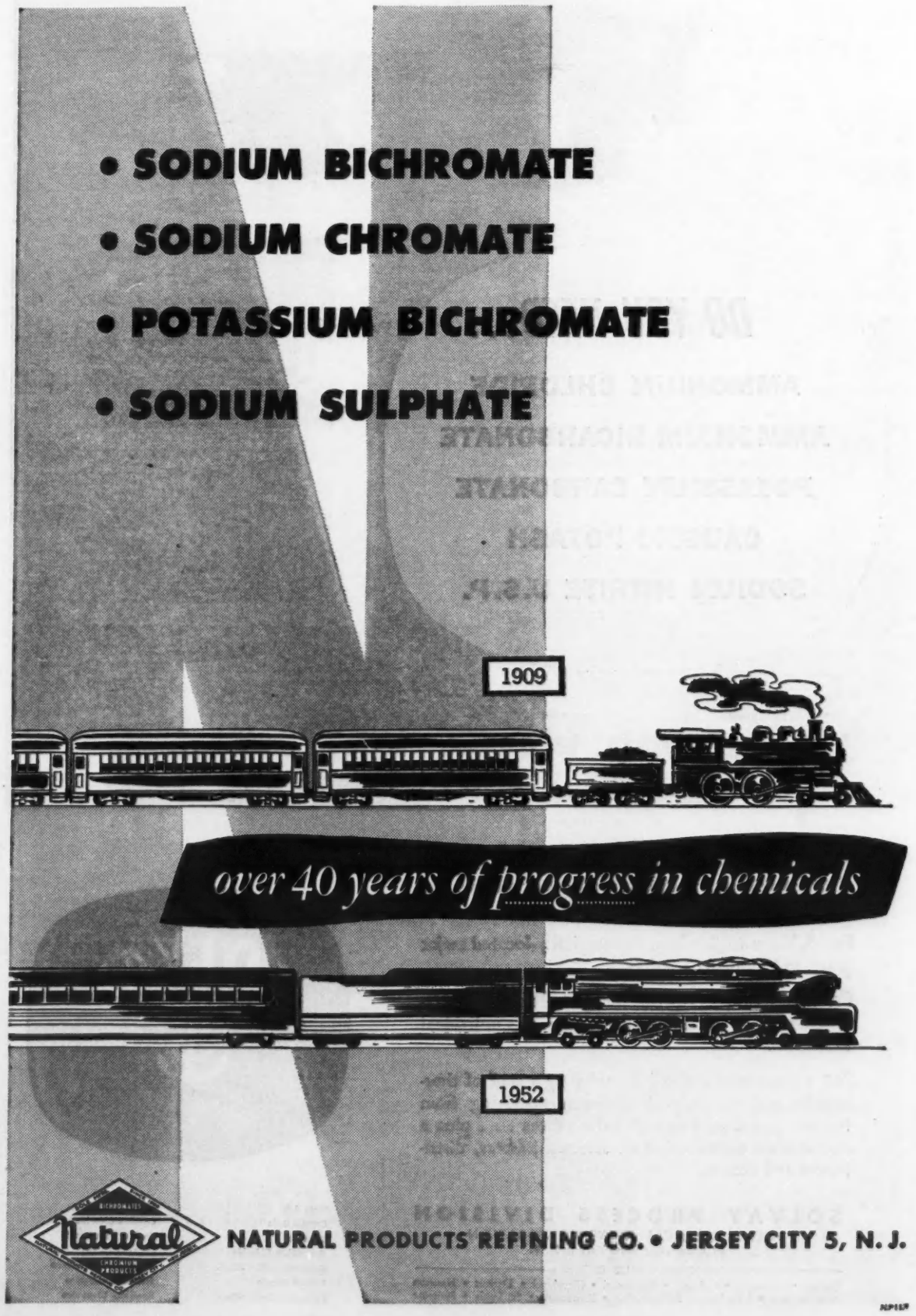
2,4,5-T, dms., c.l., works.....lb. 1.60 - —
l.c.l., works.....lb. 1.65 - —
Isopropyl ester dms, c.l., works. lb. 1.70 - —
l.c.l., works ..... lb. 1.75 - —
Talc, dom., ordinary, Calif., grd., bgs., c.l., works ton.25.00 -35.00
Vermont off color, grd., bgs., c.l., works ton.14.00 - —
l.c.l., works .. ton.17.50 - —
fibrous, New York, grd., bgs., c.l., works ton.25.00 -30.00
l.c.l. ..... ton.28.00 -35.00
99.5%, 325 mesh, bgs., c.l., works ton.27.00 —
l.c.l., works ..... ton.30.00 -32.00
99.95%, micronized, bgs., works, ton.36.00 - —
imp. Canadian, grd., bgs., c.l., mines ton.15.25 -35.00
Tallow, edible, tanks, dlvd.....lb. .08 - —
inedible, extra.....lb. .05⅝- —
fancy .....lb. .05⅜- —
No. 1 .....lb. .04⅜- —
special .....lb. .05 - —
sulphonated, 25%, dms., l.c.l.lb. .06½- .07
50%, dms., c.l.....lb. .09½- .10
Tamarind, W.I., bbls .....lb. .11 - .12
Tankage, animal, feeding, 9-11% ammo, bulk..unit-ton. 8.00 - —
Chicago .....unit-ton. 8.75 - —
Tansy leaves nts.....lb. .25 - .30
Tapioca flour, high grade, ex whse., bgs. lb. .14 - .14½
medium grades, ex whse., bgs. lb. .13½- .14½
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .50 - —
l.c.l., same basis.... gal. .52 - —
tanks, same basis.....gal. .40 - —
25-28%, dms., c.l., same basis. gal. .56½- —
l.c.l., same basis... gal. .58½- —
tanks, same basis..... gal. .46½- —
50-53%, dms., c.l., same basis. gal. .72½- —
l.c.l., same basis.....gal. .74½- —
tanks, same basis..... gal. .62½- —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tarragon herb, bgs.....lb. .45 - .50
Leaves, bgs.....lb. .65 - .70
Tartar emetic, tech., gran. or powd., bbls., kgs lb. .56 - .59
dms. ..... lb. .57 - .60
USP, powd., bbls., dms., kgs lb. .61 - .62
Terpin hydrate com'l bbls., c.l lb. .24¼- —
l.c.l. ..... lb. .25 - .25
NF, cryst., fib. dms.....lb. .70 - .80
powd., fib. dms.....lb. .75 - .85
Terpineol alpha (see A).
commercial, dms., c.l., South lb. .13½- —
l.c.l., South ..... lb. .14 - —
extra, dms ..... lb. .48 - .50
prime, dms ..... lb. .36 - .43
Terpinglycol ether, dms., c.l., works. lb. .23¼- —
l.c.l. works..... lb. .25½- —
tanks, works ..... lb. .22 - —
Terpinyl acetate, extra, cns., dms.lb. .55 - .70
prime, dms ..... lb. .55 - .60
Propionate, dms.....lb. 1.75 - 2.00



Terra alba (see Gypsum).
Testosterone, USP, 100 gms., bots. gm. 1.90 - —
Propionate, USP, 100 gms., bots. gm. 1.90 - —
Tetrachloroethane, dms., works lb. .12½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
Tetrachloroethylene, USP, 55-gal. dms., works lb. .20½- .21½
smaller, dms., works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., works lb. .71 - —
l.c.l. lb. .72 - —
Pyrophosphate, 40%, cns., dms., dlvd lb. .714 - —
Tetraethylenepentamine, dms., c.l., dlvd., E lb. .57½- —
l.c.l., dlvd. E lb. .58½- —
tanks, dlvd E lb. .56 - —
Tetrapotassium phosphate, (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thalium metal, dlvd lb. 12.50 -15.00
Sulphate, 99%, bots., dlvd lb. 10.50 -13.00
Theobromine, fib. dms lb. 4.50 - —
Salicylate, fib. dms lb. 4.75 - —
Sodio-salicylate, fib. dms lb. 3.60 - 3.65
With sodium acetate, USP, dms. lb. 4.30 - 4.35
Theophylline, anhydrous or USP, 100-lb. dms lb. 4.40 - 4.45
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms kilo. 160.00 - —
Mononitrate, USP, fib. dms kilo. 160.00 - —
Thiocarbanilide, dms lb 44 - .51
Thiodiphenylamine (see Phenothiazine)
Thiophene, dms., c.l., works lb. 1.99¾- —
l.c.l., same basis lb. 2.00 - —
Thiouracil, dms. works lb. 5.50 5.60
Thiourea, tech., dms., c.l., works lb. .43½- —
l.c.l., works lb. .45½- —
Thorium nitrate, cs, works lb. 3.60 - —
Threonine dextro laevo, bots., 1-kilo lots kilo. 600.00 - —
Thyme, French, bgs lb. .20 - .21
Spanish, bls lb. 08 - 08½
Thymol, fib. dms lb. 3.25 - 3.30
Iodide, NF, dms lb. 6.80 - —
Timbo root (see Cube root).
Tin chloride, stannous anhyd., dms. works lb. .98½- .99½
Crystals, hydrous, bgs., bbls., works lb. .80¾- —
Metal lb. 1.21½- —
Oxide, dms lb. 1.23 1.24
Sulphate, stannous, bbls lb. 1.09 1.11
Tetrachloride, anhyd., dms., works lb. .89 .90
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd. lb. .21 .21½
l.c.l., dlvd lb. .22 - .22½
regular, bgs., c.l., dlvd lb. .21 - .21½
l.c.l., dlvd. lb. .22 - .22½
ceramic, bgs., c.l., dlvd lb. .21 - .21½
l.c.l. dlvd lb. .22 - .22½
metallurgical, natural granular, bgs., c.l., f.o.b. Jacksonville, Fla. ton. 110.00 - —
c.l., Niagara Falls, N. Y ton. 127.50 - —
5 tons, same basis ton. 132.50 - —
ton lots, same basis ton. 137.50 - —
(Milled, $7.50 per ton higher.)
rutile non-chalking, bgs., c.l., dlvd. E lb. .23 - .23½
l.c.l., dlvd. E lb. .24 - .24½
Hydride, cns., works lb. 7.95 9.00
Pigment, calcium-rutile, base, bgs., c.l. dlvd lb. .08 .08½
Titanium dioxide and pigment in bbls., ¼c. higher, Pac. coast, c.l., dlvd. L.c.l., ex whse., ½c. higher.
Tetrachloride, tech., dms., c.l., works lb. .45½- —
l.c.l., works lb. .48½- .56½
tankcars, works lb. .44½- —
Tolidin base, distilled, kgs lb. 1.30 - —
Tolu balsam, cns., dms lb. 4.00 - 5.90
Toluene (see Toluol).
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethlehem, Pa gal. .32 - —
Birmingham dist gal. .30 - —
Chicago dist gal. .33 - —
Cleveland dist gal. .32¾- —
Geneva, Utah gal. .26 - —
Hamilton, Ohio gal. .32 - —
Johnstown, Pa gal. .30 - —
Lackawanna, N. Y gal. .33 - —
Lone Star, Tex gal. .35 - —
Lorain, Ohio gal. .31 - —
Minequa, Colo gal. .32 - —
Philadelphia, Pa gal. .33½- —
Pittsburgh dist gal. .30 - —
Sparrow's Point, Md gal. .32 - —
Syracuse, N. Y gal. .30½- —
Terre Haute, Ind gal. .33½- —
Wyandotte, Mich gal. .34¼- —
Youngstown, Ohio gal. .30½- —
Petroleum, industrial, 2° tanks, works:—
Albany, N. Y gal. .33 - —
Bayonne, N. J gal. .33 - —
Baytown, Tex gal. .31 - —
Chicago, Ill gal. .33 - —
Detroit, Mich. gal. .33 - —
Philadelphia, Pa gal. .33 - —
Providence, R. I gal. .33 - —
Wood River, Ill gal. .33 - —
Tonga, 50% bark and vine, bls lb. .65 - .66
Tonka beans, Angostura, cks lb. 1.75 - 1.80
Brazilian, Surinam, cs lb. 1.00 - 1.25
Totaquine, 100-oz lots, cns oz. .42 - —
Toxaphene, dms, c.l., works lb. .23 - —
truckloads, works lb. .23 - —
ton to truckloads, works lb. .26 - —
less than ton lots, works lb. .29 - —
Triacetin, dms., c.l., dlvd. E, of Rockies lb. .42¾- —
l.c.l., same basis lb. .43¾- .45½
tanks, same basis lb. .41 - —
Tributyl citrate, tech., dms., c.l. lb. .40½- —
l.c.l. lb. .41½- —
tanks lb. .39 - —
Phosphate, dms., c.l., frt. alld lb. .51¾- .63½
l.c.l., same basis lb. .52¾- .64½
tanks lb. .50 - —
Tributylamine, dms., c.l., works. lb. .73½- —
l.c.l., same basis lb. .75 - —
tanks, same basis lb. .72 - —
Trichlorobenzene dms., c.l., works, frt. alld lb. .12½- —
l.c.l., frt. alld lb. .13½- —
tanks, frt. alld lb. .11 - —
Prices in the West 1¼c. higher.
Trichloroethane, dms., c.l., works lb. .13 - —
l.c.l., works lb. .13½- —
tanks, works lb. .11½- —
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald lb. .11 - —
dlvd. E. lb. .12½- —
l.c.l., works, frt. equald lb. .11½- —
dlvd. E. lb. .13½- —
tanks, works, frt. equald lb. .10 - —
dlvd. E. lb. .11 - —
Tricholine citrate, 65% solut., red. cbys., works, frt. adjusted. lb. 1.40 - 1.45
Tricresyl phosphate coaltar, dms., c.l., dlvd. lb. .34¾- —
l.c.l., dlvd. lb. .35¾- —
tanks, dlvd. lb. .33 - —
petroleum, dms., c.l., dlvd lb. .34¾- —
l.c.l., dlvd. lb. .35¾- —
tanks, dlvd. lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E lb. 26¼ - —
l.c.l., same basis lb. 27¼ - —
tanks, same basis lb. 24½ - —

Triethylamine, dms., c.l., works, frt. alld. E. of Rockies lb. .45½- —
l.c.l., same basis lb. .46½- —
tanks, same basis lb. .43¾- —
Triethyl citrate, tech., dms., c.l. lb. .37½- —
l.c.l. lb. .38½- —
tanks lb. .36 - —
Phosphate dms., works, c.l. lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethyleneglycol, dms., c.l., dlvd. E. lb. .23¼- —
l.c.l., same basis lb. .24¼- —
tanks, same basis lb. .21½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. .48½- —
l.c.l., dlvd. E lb. .49½- —
tanks, dlvd. E lb. .47 - —
Trimethylamine, 25-40%, dms., c.l., works, frt. equald, 100% basis lb. .38 - —
l.c.l., works, frt. equald, 100% basis lb. .38½- —
tanks, works, frt. equald., 100% basis lb. .33 - —
Tripentaerythritol, bgs., c.l., works. lb. .36½- —
l.c.l., same basis lb. .39½- —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .37 - —
l.c.l., frt. equald lb. .38 - —
Triphenyiguanidine, bbls., works lb. .90 - —
Tripoli, air floated, bgs., c.l., works. lb. .62 - —
double grd., bgs., c.l., works lb. .0185- —
single-grd., bgs., c.l., works lb. .0175- —
Tripropyleneglycol, dms., c.l., frt. alld lb. .26¼- —
l.c.l., frt. alld lb. .27¼- —
tanks, frt. alld lb. .24½- —
Trisodium fluoroacetate (see sodium fluoroacetate tribasic).
Trisodium phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:80 dms., works lb. 4.00 - 5.50
Tryptophane, dextro-laevo, fib. ctns. works kilo. 165.00-198.00
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works lb. 7.75 - —
Turmeric root, Alleppey, bgs lb. .11 - .11½
Madras, bgs lb. .09½- —
Turpentine, gum and wood (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots gram. 1.00 - 1.10

U

Urethane, USP dms lb. 1.50 - —
Unicorn root, false (see Helonias root)
True (see Aletris root).
Uranium oxide, black, bgs lb. 2.55 - —
yellow, kgs lb. 1.65 - —
Urea, dom., 46%, N bgs., c.l., wks. lb. .05½- —
l.c.l., works lb. .06 - —
44% N, bgs., c.l., 30 tons, frt alld, Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east ton. 142.00 - —
l.c.l., dlvd ton. 146.00 - —
Urea-ammonia liquor, A and B grades, N basis, tankcars, Belle, W. Va ton. 120.00 - —
C and D grades, tankcars, same basis ton. 118.50 - —
37 grade, tankcars, same basis ton. 147.50 - —
Uva ursi leaves, bls lb. .10 - .14

V

Valerian root, Belgian, NF, bls lb. .40 - .42
Valine dextro-laevo, dms., works. lb. 21.00 -27.50
Valonia, beards, 40-42% tannin, bgs., exdock ton. 85.00 - —
cups 28-30% tannin, bgs., ex dock, ton. 65.00 -66.00
extract, powd., bgs., ex dock, duty extra lb. .09½- —
Vanadium pentoxide, CP, bgs., cns, contract, works lb 7.00 —
tech., dms. works lb 1.28 1.33
Vanilla, beans, Bourbon, tins lb. 3.50 - 3.75
Mexican, cuts, tins lb. 3.50 - 3.75
whole, tins lb. 4.00 - 4.50
Tahiti, cs lb. 3.00 Nom.
Vanillin, ex eugenol, tins, 25 lbs lb 6.75 —
smaller lots lb 6.90 7.25
ex guaiacol, tins, 25 lbs lb. 3.00 —
smaller lots lb. 3.05 3.15
ex lignin, tins, 25 lb. lots lb 3.00 —
smaller lots, tins lb. 3.05 3.15
Vinyl acetate, 55-gal. dms., c.l., works lb. 20¾- —
l.c.l., works lb. 21¼- —
tanks, works lb. 19¾- —
Butylether, normal, tech., dms., c.l., works lb. 28 - —
l.c.l. works lb. 30 - —
tanks, works lb. 27 - —
Ether (see Ether divinyl).
Ethylether, tech., dms., c.l., works lb. 28 - —
l.c.l., works lb. 30 - —
tanks, works lb. 27 - —

NITRIDING STEEL
One of the many uses for versatile Pennsalt Ammonia.

Pennsalt ammonia

ANHYDROUS Commercial grade, tank cars
Refrigeration grade, tank cars and cylinders
AQUA Technical, tank cars

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Locust 4-4700

Appleton, Wis.—Appleton 3-9307
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Chicago 1, Ill.—Andover 3-6170
Cincinnati 2, Ohio—Main 3168
Detroit 26, Mich.—Woodward 1-8051
Los Angeles 11, Calif.—Jefferson 6244
Paterson 1, N. J.—Lambert 5-3500
Pittsburgh 19, Pa.—Atlantic 1-5233
Portland, Ore.—Atwater 7655
Tacoma 1, Wash.—Main 9101

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Pennsylvania Salt Manufacturing Company
1000 Widener Building, Philadelphia 7, Pa.
PROGRESSIVE CHEMISTRY FOR OVER A CENTURY

Vinyl Isobutylether—Yellow, Cadmium

Vinyl isobutylether, tech., dms., c.l., works..lb. .28 - —
l.c.l., works.....lb. .30 - —
tanks, works.....lb. .27 - —
Methylether, cyls., works.....lb. .30 - —
tanks, works.....lb. .27 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride (see 1richloroethane).
Pyridin, ret. dms., works ... lb. 1.65 - —
Viosterol, in alcohol, 1,000,000 D units per gm., bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in natural vegetable oil, 400,000 to 1,000,000 D units per gm. bots., lots of 100 billion USP units..
lots of 1 billion USP units, 1,000,000 units. .025 - —
lots of less than 1 billion USP units, 1,000,000 units. .03 - —
Vitamin A, synthetic, acetate, crystalline, beads, 500,000 A units per gm.....
1,000,000 units. .17 - —
liquid, in oil, 1,000,000 A units per gm.....
1,000,000 units. .15 - —
natural, concentrates (see Oil, fishliver).
Vitamin A, palmitate, liquid, 1,000,000-1,800,000 A units per gm..1,000,000 units. .15 - —
in oil, 1,000,000 A units, per gm..1,000,000 units. .15 - —
B_1, (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran concentrate and Yeast).
B_6 (see Pyridoxine hydrochloride).
B_{12}, crystalline, gm. or 5 gm. vials gram.295.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity..gm.225.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol, and Viosterol).
D_2 (see Calciferol)
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
H (see Biotin).
K, Active (see Menadione).
K_1, 25 gm. bots.....gram. 4.50 - —
Violet methyl toner (see Blue, methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls.....lb. 1.80 - 1.85
tree bark, bls.....lb. .75 - .90
Warfarin, 0.5%, dms., 50 lb. lots, f.o.b. N. Y. or Chicago lb. 1.95 - —
25-49 lb. lots, same basis..lb. 2.05 - —
5-24 lb. lots, cns., same basis.lb. 2.15 - —
Wattle bark, fair average, or E. Afr., bgs., ex dock ton.103.00 - —
merchantable, bgs., ex dock.ton.99.00 -100.00
Wattle extract, liquid 35% tannin, bbls., works..lb. .10¾- .11
solid, E. Africa, 61% tannin, bgs., ex dock, duty extra, lb. .11 - —
S. Africa, 62%, tannin, ex-dock, duty extra..lb. .11½- —
Wax amorphous (see Wax microcrystalline).
Bayberry, bgs., spot.....lb. .55 Nom.
Bees, crude, African, bgs.....lb. .47 - .48
Brazilian, bgs.....lb. .70 Nom.
Central American.....lb. .54 - .55
refined, bleached, USP, bricks, lb. .69 - .71
slabs.....lb. .67 - .69
yellow, bricks.....lb. .60 - .62
slabs.....lb. .58 - .60
Candelilla, crude, bgs.....lb. .75 - .77
refined, bgs.....lb. .77 - .79

Powdered candelilla, 20 mesh, 5c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, bgs., ton lots, lb. .92 Nom.
North Country, No. 2, bgs., ton lots..lb. 1.00 Nom.
No. 3, crude, bgs., ton lots.lb. .93 - .94
refined, bgs., ton lots....lb. .98 - 1.00
yellow, No. 1, bgs., ton lots..lb. 1.26 - 1.28
No. 2, bgs., ton lots.....lb. 1.24 - 1.26

Powdered carnauba price differentials same as powdered candelilla.

Esparto, African.....lb. .80 - .82
Japan, bgs.....lb. .23 - .25
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000, lbs. group 3, works lb. .13 - .14
Less than 20,000 lbs., same basis lb. .14 - .15
Wax, microcrystalline, 170°-175° m.p., ASTM black, ctns., 20,000 lbs., same basis. lb. .11½- .12½
Less than 20,000 lbs., same basis lb. .12½- .13½
white, ctns., 20,000 lbs., same basis lb. .24 - .25
less than 20,000 lbs., same basis lb. .25 - .26
180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .16 - —
less than 20,000 lbs., same basis lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
less than 20,000 lbs lb. .15½- —
180°-185° m.p., ASTM, white, ctns., 20,000 lbs., same basis lb. .27 - —
less than 20,000 lbs., same basis lb. .28 - —
190°195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .20 - —
less than 20,000 lbs., same basis lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
less than 20,000 lbs., same basis lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
less than 20,000 lbs., same basis..lb. .34½- —
Montan, dom., refined, bgs.....lb. .31 - .32
German, crude, bgs.....lb. .13 - .15
Ouricury, ref., bgs.....lb. .74 - .75
Paraffin (see P).
Spermaceti, blocks, cs.....lb. .26 - .29
cakes, cs.....lb. .27 - .30
Sugar cane, crude, tmp.....lb. .43 - —
ref., dom., works.....lb. .75 - .80
spot.....lb. .77¼- .82½
White lead (see Lead., white).
White pine bark, rossed, bls...lb. .17 - .18
White precipitate, USP powd., dms., lb. 5.00 - —
Whiting, limestone, dry-grd., 99.5%, 325 mesh bgs., c.l., works, ton 6.00 -10.00
smaller lots, works ton 6.50 -15.00
wet-grd., bgs., c.l., works ton.16.00 -30.00
smaller lots, works ... ton.21.00 -35.00
Paris white, bgs., c.l.....ton.24.00 -31.00
l.c.l.....ton.25.00 -40.00
Precipitated, bgs., c.l.....ton.18.00 -20.00
l.c.l.....ton.25.00 -35.00
Wild cherry bark, thick, natural, bls lb. .06 - .07
thin, natural, bls.....lb. .17 - .19
rossed, bls.....lb. .19 - .22
Ginger (see Snake root, Canada).
Indigo root, bls.....lb. .30 - .31
Yam root, bls.....lb. .16 - .17
Witch hazel leaves, bls.....lb. .19 - .20
Woodflour 40 mesh, bulk c.l., works, East ton.32.00 - —
l.c.l., same basis.....ton.36.80 - —
60 mesh, bulk, c.l., same basis.ton.37.00 - —
l.c.l., same basis.....ton.42.00 -55.00
Woodflower, 80-100 mesh, bulk, c.l., same basis ton.45.00 -50.00
l.c.l., same basis ton.51.75 -57.50
Woodflour in bgs. extra, returnable.
Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed American, bgs.....lb. .14 - .16
Levant, bgs.....lb. 4.25 - 4.50
Wormwood leaves, bls.....lb. .35 - .45

X

Xanthorrhiza root, bls.....lb. .28 - .30
Xylene (see Xylol).
Xylenol, cryst., 56°-58°C. m.p., ret. dms., l.c.l., works, frt. equald. lb. .25 - —
45°-47°C. dms. c.l. same basis. lb. .212 - —
l.c.l., same basis.....lb. .215 - —
tanks, same basis.....lb. .199 - —
fractions, over 7°C, b.r., except meta, dms., c.l. same basis. gal. 1.31 - —
l.c.l., same basis.....gal. 1.34 - —
tanks, same basis.....gal. 1.20 - —
meta fraction, over 7° C., dms., c.l. same basis..gal. 1.46 - —
l.c.l., same basis.....gal. 1.49 - —
tanks, same basis.....gal. 1.35 - —
Xylidins, mixed, dms.....lb. .39 - .50
Xylol, coaltar, industrial, tanks, works
Bethlehem, Pa.....gal. .33 - —
Birmingham district..gal. .30¼- —
Chicago district.....gal. .33½- —
Cleveland district....gal. .33 - —
Geneva, Utah.....gal. .25 - —
Hamilton, Ohio.....gal. .32 - —
Johnstown, Pa.....gal. .31 - —
Lackawanna, N. Y...gal. .33 - —
Lone Star, Tex.....gal. .35 - —
Lorain, Ohio.....gal. .31 - —
Minequa, Colo.....gal. .34 - —
Philadelphia, Pa.....gal. .33 - —
Pittsburgh district...gal. .30 - .33
Sparrows Point, Md..gal. .33 - —
Terre Haute, Ind....gal. .35 - —
Wyandotte, Mich.....gal. .34¼- —
Youngstown, O.....gal. .30½- —
Petroleum, indust., tanks, Albany, N. Y..gal. .33 - —
Bayonne, N J.....gal. .33 - —
Baytown, Tex.....gal. .31 - —
Chicago, Ill.....gal. .33 - —
Philadelphia, Pa....gal. .33 - —
Providence, R. I....gal. .33 - —
Wood River, Ill....gal. 33 - —

Y

Yara yara, cns.....lb. 2.25 - 2.68
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb. dms lb. .52 - —
200 Int'l B units per gram, 100-lb. dms lb. .56 - —
300 Int'l B units per gram, 100-lb. dms lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul lb. .35 - —

Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.

Benzidin, AAA, bbls., dlvd....lb. 1.91 - —
AAOT, bbls. lb. 2.06 - 2.15
Cadmium, CP, all shades, bbls., frt. alld., E. of Rockies lb. 2.85 - —
lithopone, all shades, bbls., frt. alld., E. of Rockies lb. 1.20 - —

Cadmium yellows, Los Angeles and San Francisco, ex whse., 1c. per lb. higher.

You can't keep a good man from coming out on top. And a fellow is never so likely to succeed, insofar as flatting of varnishes and lacquers is concerned, as when he specifies "Metasap".*

For Metasap Stearates, resulting from long and deliberate study of varnish and lacquer flatting problems, are *precisely formulated* metallic soaps which assure the flat, clear, marproof films that consumers look for.

We especially recommend:

METASAP ALUMINUM STEARATE V—a decidedly superior product with every important property for an ideal flatting agent—low washed ash content, high free stearic acid, correct particle size, high gel temperature. The thin gels normally obtained permit *optimum degree of dispersion.*

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METALLAC*—Metasap's special grade of zinc stearate. Characterized by minimum gelling tendencies and flatting properties equal to those of aluminum stearate.

This lists but a fraction of what we produce at Metasap, for we not only provide tailor-made specialties for many industries, but offer a *complete line* of stearates and palmitates of aluminum, zinc, calcium, and magnesium. Manufacturers in many fields rely on Metasap Chemicals to help them achieve the quality products they desire.

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Yellow, chrome, CP, bbls., dlvd N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island..lb. .31 - —
Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex. 2c higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Hansa, 10 G, bbls., same basis as chrome..lb. 2.15 - —
G, pigment, bbls.....lb. 1.91 - —
Iron oxide, natural, bgs., c.l., works lb. .0141- 0250
t.c.l., works lb. .0166- 0275
French type, bgs., c.l.,. lb. .04½- —
t.c.l. lb. .04¾- —
Peruvian type, bgs., c.l lb. .0165- —
pure, bgs., c.l., works lb. .10 - —
t.c.l., works lb. .1025- —
Yellow, mercury oxide, bbls., 1,000-lb. lots lb. 4.15 - —
smaller lots lb. 4.17 - —
Ocher American golden, bgs., works lb. .01¼- .02¾
Zinc (chromate), bbls., dlvd lb. .25 - —
basic, dlvd. lb. .30 - —
Yellow dock root, bls lb. .18 - .19
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls lb. .32 - .33
Yohimbine hydrochloride, bots., tins. oz. 4.75 5.25

Z

Zein, bgs., 30,000 lbs. lots, works lb. .33 - —
1,000-lb. to 30,000-lb. lots, works lb. .40 - —
smaller lots, works lb. .43 - —
Zinc acetate tech, bbls. dms, works. lb. .28 - —
NF VIII, dms lb. .53 - —
Borate, bgs., c.l., dlvd. E lb. .192 - —
t.c.l., dlvd. E lb. .202 - —
Carbonate, tech., rubbermakers, bgs., c.l., works lb. .14½- —
t.c.l., works lb. .15 - —
Chloride, NF, gran., dms lb. .42 - —
precipitated, powd., dms lb. .26 - —
solution, 50%, dms., c.l., works, 100 lbs. 4.75 - —
t.c.l., works 100 lbs. 5.35 - —
tanks, works 100 lbs. 4.10 - —
tech., fused, dms., c.l., works, 100 lbs. 9.60 - —
t.c.l., works 100 lbs. 10 00 - —
gran., fib., dms., c.l., works 100 lbs. 10.60 - —
t.c.l., works 100 lbs. 11 00 - —
Chromate (see Yellow zinc).
Cyanide, kgs., over 1,000 lbs., works lb. .523 - —
under 1,000 lbs., works lb. .543 - —
Dust, bbls., c.l., works lb. .17½- —
t.c.l., works lb. .18½- —
Fluoride, bbls., works lb. .40 - —
Hydrosulphite, dms., c.l., frt. alld lb. .21½- —
t.c.l. lb. .22 - .37½
Iodide, NF, jars lb. 4.92 - —
Laurate, bbls lb. .45 - .46
Metal, slabs, E. St. Louis lb. .13½- —
Naphthenate, liquid, 8% Zn, frt. alld lb. .23½- —
10% Zn, dms., frt. alld lb. .28½- —
Oleate, fused, bbls lb. .36 - —
Oxide, pigment, dom., acicular, bgs., c.l., dlvd lb. .1475- —
t.c.l., dlvd lb. .1575- —
American process, com'l, lead-free, bgs., c.l., dlvd. lb. .1475- —
dlvd lb. .1475- —
t.c.l., dlvd lb. .1575- —
leaded 35%, bgs., c.l., dlvd. lb. .1475- —
t.c.l., dlvd lb. .1575- —
50% bgs., c.l., dlvd. lb. .1475- —
t.c.l., dlvd lb. .1575- —
French process, com'l, green seal, bgs., c.l., dlvd lb. .1650- —
t.c.l., dlvd lb. .1750- —
red seal, bgs., c.l., dlvd. lb. .16 - —
t.c.l., dlvd lb. .17 - —
white seal, bgs., c.l., dlvd lb. .17 - —
t.c.l., dlvd lb. .18 - —
USP, ctns., c.l., dlvd lb. .18 - —
t.c.l., dlvd lb. .19 - —
Zinc oxide Pac. coast prices 1c. higher; bbl. prices ¼c higher than bgs.
Phenosulphonate, NF, gran., dms. lb. .39 - —
powd., dms lb. .42 - .49
Resinate precip., dms., frt. alld. lb. .26¾- —
lb. .26¾- —
Silicofluoride, bbls., works lb. .12 - .13
Stearate, tech., USP, ctns., c.l. lb. .37 - —
ton, lots lb. .38 - —
less ton lots lb. .39 - —
Sulphate cryst., 22% Zn, bgs., c.l., works, frt. alld 100 lbs. 7.30 - —
t.c.l., same basis 100 lbs. 7 70 - —
flake, 25½% Zn, bgs., c.l., works 100 lbs. 6.55 - —
t.c.l., works 100 lbs. 6.90 - —
powdered, 36% Zn, bgs., c.l., frt. alld 100 lbs. 9.25 9.95
t.c.l., same basis 100 lbs. 10.00 -10.70
Zinc sulphate in bbls., 40c higher.
USP, gran., dms lb. .26 - —
Sulphide, pure, bgs., c.l., dlvd lb. .2330- —
fluorescent, fib., dms., less than 1,000 lbs., works lb. 1.10 - 1.90
phosphorescent fib., dms., less than 1,000 lb. lots, works. lb. 1.85 - 2.50
Undecylenate, dms lb. 2.25 - 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works 100 lbs 9.05 - —
t.c.l., works 100 lbs. 9.45 - —
Zinc-cadmium sulphide, fluorescent fib., dms., under 1,000 lbs., works lb. 2.10 - 2.90
Zinc-calcium resinate, dms., c.l., works lb. .1180- .1360
t.c.l., same basis lb .1220- .1400
Zinc-formaldehyde sulphoxylate, basic, dms., c.l. lb. .25½- —
t.c.l. lb. .26 - .41½
normal, dms., t.c.l., works lb. .52 - —
Zircon, (G), granular, bgs., c.l., works lb. .03½- —
5 tons to c.l., works lb. .03⅝- —
1 ton to 9,999 lbs., works lb. .03⅞- —
500 lbs. to 1,999 lbs., works. lb. .04 - —
less than 500 lbs., works lb. .06½- —
milled, bgs., c.l., works lb. .04½- —
5 tons to c.l., works lb. .04⅝- —
1 ton to 9,999 lbs., works lb. .04⅞- —
500 lbs. to 1,999 lbs., works. lb. .05 - —
less than 500 lbs., works lb. .07½- —
Zircon (G) in barrels, ¼c. higher.
Zirconium acetate 13% sol ZrO_2, c.l., 30,000 lbs., minimum works lb. .23 - —
Carbonate basic, cake bbls., works lb No prices.
Hydride, cns., works lb. 7.50 -10.00
Nitrate, dms., ex whse lb. 4.50 - 7.00
Oxide 98½-99% white grd., bbls. or bgs., works lb. 1.50 —
lump electric-fused, bgs., c.l., works lb. .44 - —
5 tons, works lb. .44½- —
1 ton to 9,999 lbs., works lb. .45 - —
500 lbs. to 1,999 lbs., works lb. .45½- —
lump, electric-fused, bgs., less than 500 lbs., works lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .59 - —
5 tons, works lb. .59½- —
1 ton to 9,999 lbs., works lb. .60 - —
500 lbs. to 1,999 lbs., works lb. .60½- —
less than 500 lbs., works lb. .63 - —
Oxychloride, cryst., ctns., 5 tons, works lb. .32¼- —

Sorbitol Gains Told

—*Continued from page 5*

in the alkyd resin field—glycerol, pentaerythritol, ethyleneglycol, sorbitol mannitol. He said that researchers are discovering that in products where other materials are constant, resins containing pentaerythritol and those containing sorbitol-glycerin mixtures are giving better initial performance in salt spray cabinets than those made with straight glycerin.

"This would indicate initially at least," he continued, "that sorbitol is somewhat comparable to pentaerythritol in its superior water and chemical resistance." Its remaining disadvantage, he added, is its high equivalent weight due to inner ether formation, but concluded by saying that "it is believed in the future that where sorbitol shows a definite advantage in performance it will take the place of glycerin and pentaerythritol in the manufacture of alkyds and that it will compete with them where the economics are favorable."

Morris Kantrowitz, technical director of the Government Printing Office, emphasized sorbitol's use in adhesives, citing, in particular, bookbinding, where adhesives containing sorbitol reduce warping, eliminate cracking at back and have better viscosity. Dr. R. C. Ernst, dean of the Speed Scientific School, University of Louisville, reported on the uses made of sorbitol by the tobacco industry.

Pharmaceutical Applications

Dr. Henry R. Kreider, executive assistant to the scientific director of William S. Merrell Company, discussed "Sorbitol in the Pharmaceutical Industry." Dr. Kreider said that pharmaceutical makers, in their search for cheaper solvents, have found that sorbitol possesses certain characteristics which not only permit substitution for other high price diluents, but even imparts certain desirable characteristics which increase consumer acceptance and sales appeal. He said that the inability of mouth bacteria to metabolize sorbitol sufficiently to form acid enables it to perform the work of sugar as a sweetening agent in mouth washes, gargles or sprays without contributing to tooth decay as does sugar.

He went on to say that sorbitol shows promise of providing the answer to the problem of bacteriologic stability of liquid preparations, as "we have not found a commonly occurring organism which will ferment sorbitol." In addition, he cited the wide range of compatibilities of sorbitol compared to other solvents commonly used in formulating drug mixtures. "The work done this far on the use of sorbitol in pharmaceutical products," Dr. Kreider concluded, "certainly indicates that more experimental work should be done to determine its scope of usefulness."

Sidney Kirkpatrick, vice-president of McGraw-Hill Book Company, served as chairman of the symposium.

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Give 'Em All a Chance

In the light of today's rapidly multiplying and still more rapidly changing problems of business, there is one encouraging trend which is not getting the attention of study and support which it deserves. This is the holding of conferences, panel discussions, symposiums, or some such meetings of business groups. This idea is getting to a stage of replacing the convention of customary type—and that is one of its most encouraging aspects.

The strides in that direction are not yet many or lengthy. So, there is no wonder that the plant maintenance conference scheduled for next January is designated as "unique" in that arrangements are being made in an "unprecedented" effort to permit every visitor to have his specific questions answered by "experts" from all major industries.

The conference's new idea has not yet got so far as to do away with the reading of prepared papers—of which there is too much at every convention both in concrete numbers and in relation to other features. But, it will present facilities in panels, conferences, and roundtables for the handling of an estimated 5,000 individual problems. Each of the twenty-nine sessions of those types will extend over two days to encourage and to permit visitors to consider discussions over the intervening night and to submit questions based on their own experiences. The announcement does not say that those opportunities will be open also for the submitting of answers on the same basis; but doubtless that will be provided for.

Aside from the panel discussions on management matters in general, the arrangements contemplate separate sessions, some of them of several groups, by eleven major industries, for intensive consideration of their particular problems. In addition, the announcement says that 1,500 experts, representing 300 exhibitors, will be available for questioning concerning equipment on the floor of the plant maintenance show.

The annual meetings of business groups, whether technical or commercial, would be much better if they were conferences, rather than mere conventions. They should afford opportunity for every attendant to ask what he wants to know and to tell what he has to say. As now arranged, most of such meetings have such crowded programs of contributions by "experts" of all degrees of qualification that there is seldom half enough time for the providing of information desired by the listeners by reason of some aspect of what they have more or less clearly heard. It is most discouraging for the man who gets the germ of a thought from something said by a speaker to have the chairman, at the close of the applause following a forty-five minute dissertation, say "unfortunately our schedule is running a bit behind and we have no time for discussion." It would be much better for all concerned, in fact, if, when there was not enough foresight to avoid such crowding, to ask those who had anything to ask—or to tell—to hand it in in writing for submission to the speaker. Of course, that would not make opportunity for participation to the extent that would be most informative, but it would be something.

A really good program for a conference—whether it be called a convention or something else—would comprise questions collected from all members of the organization, say at least, a month in advance and sent to all the members for consideration and answering in time for presentation at the sessions. And then there should be time enough also for full discussion of both questions and answers as they were presented.

Orations are all very well in their proper time and place. There are so many (numerically and variously) of them now filling the atmosphere—sure, this is Cleaner Air Week—a condition which will prevail until all the post-election explaining, declaiming, and proclaiming have been effused, that they can quite well, and would very well, be dispensed with in all business gatherings during the next six months. The substitution of free-for-all old-style town meetings would be a welcome relief, as well as an informative improvement.

The Goods Must Be Sold

It is difficult for one whose economic concepts are not based on the belief that production is the sine qua non and sole essential in profitable progress to understand why those who so proclaim under almost every sort of condition—even when they are privately deploring the profit-trimming effects of overproduction—are now tearfully beseeching whatever gods there be to tell them what is going to be done with the nation's extensive, efficient productive capacity when the defense buying of the Western World quits taking the major part of its output. The answer would seem to be simple and plain: turn it to that profitable progress which is its other self.

Strange how theories do not jibe with facts—especially when one has had little, if any, experience in recognizing and facing the latter.

There are, thanks be, some few practical-minded commenters on the things of business who are telling those who gaze and guess into the future that the desirable, useful post-defense-spree course for business is to sell all it can make. That, of course, has always been the real creator of profitable progress—much, if not most, of what has dolefully been termed overproduction has, in truth, been underconsumption. And consumption, like production, is, in largest part—wholly except when those actually natural laws popularly styled "acts of God" enter the case—is man-made—which is something overlooked or somehow disregarded by those who consider the "law of supply and demand" to be some sort of superhuman, albeit natural, regulation.

It cannot be questioned that, when today's seller's market is terminated by the return to the latest successor in the line of normal conditions—whatever that may be—the need will be for a selling market. And it is regrettable that selling has not attained the maturity or stature of producing. One reason is that selling is an application of social science, while producing derives from physical science—and the advances in the latter in the past half-century have gained, at least, a dozen laps on the former.

Those who see and say that selling must take the place of the buying which comes from the other end of the channels of trade have innumerable ideas as to what selling is or should be. Some want push; some want reason. Some call for new products; others say the need is for better ones. And the big idea today runs back to the early 'nineties (the giving of prizes), although it is ball-point pens, not babies, that are given away with a package of tea. A better old-time idea again coming into vogue is the keeping of retail stores open at the times of day when most persons are able to shop and buy. The five-day, forty-hour week certainly could not handle the pile of selling that will be dumped on business when the buying for defense pulls out. It will be well also if there is a return to the old-time idea that satisfaction and convenience in use will sell more goods than appearance will; albeit a change in that respect would be somewhat draggy.

If business allows itself to get into another post-something-or-other slump—it is not pushed or pulled into such things—the one big reason will be that it is not producing what suits the public or selling in a way that is similarly acceptable.

For the Bookshelf

THE FINANCIAL EXECUTIVE'S JOB, with a Section on Criteria of Good Financial Management. Paper; 43 pages, 6x9 in. New York: American Management Association. $1.25.

Working economists, professors, and financiers contribute variously to the makeup of this, the ninety-ninth booklet in the A. M. A. financial management series. What they have to say is discussed in a forum on the criteria. They tell what is the place and status of the financial executive and how to make them what they should be—and make them work. Financing being what it is, these contributions are usefully informative.

WHAT MARKETING RESEARCH CAN DO FOR BUSINESS EXECUTIVES. Prepared by the Research Committee of the Sales Executives Club of New York. Paper; 21 pages, 5½x8½ in. New York: Sales Executives Club of New York. 25c.

Everybody able to look at the problem analytically knows that distribution—call it marketing, selling, or what you will—is the answer to how business can keep going at a satisfactory speed when the stimulation of defense programming has been removed. So, this booklet is of timely usefulness; because, again, everybody knows that effective selling, by any name, is not exactly prevalent today. It discusses its subject by way of products, distribution and sales, advertising and promotion, and general administration, "research" being given a broad meaning.

Washington Talks

—Continued from page 5

Public water supplies furnished an additional 6,000,000,000 gallons per day. The Geological Survey expects to see new industries, particularly smaller plants, turning more and more to public water supply systems, all which focuses attention on the adequacy, chemical characteristics, and treatment of local supplies.

The data in the new reports, which will be covered in a series of nine documents, the first three of which are now available from the survey, include the population supplied; ownership, sources, and treatment of supplies; capacity of treatment plants; storage facilities for both raw and finished water, and chemical analyses of the supplies.

Foot-and-Mouth Disease Control

The widespread outbreaks of foot-and-mouth disease that have occurred in Europe in the past eighteen months have encouraged the nations to get together in a joint effort to attempt eradication, or at least better control of the disease.

Thirteen nations met in Copenhagen last month under the sponsorship of the Food and Agricultural Organization and agreed on the establishment of a European Foot-and-Mouth Disease Commission whose functions will include all matters of international interest in the production and maintenance of vaccine and virus for vaccine production. It would assist in making available supplies of vaccine to meet emergency outbreaks in any country and ensure that facilities are available for the typing of virus. It would also study the possibility of establishing an international laboratory to deal with typing of strains of virus and the production of vaccine.

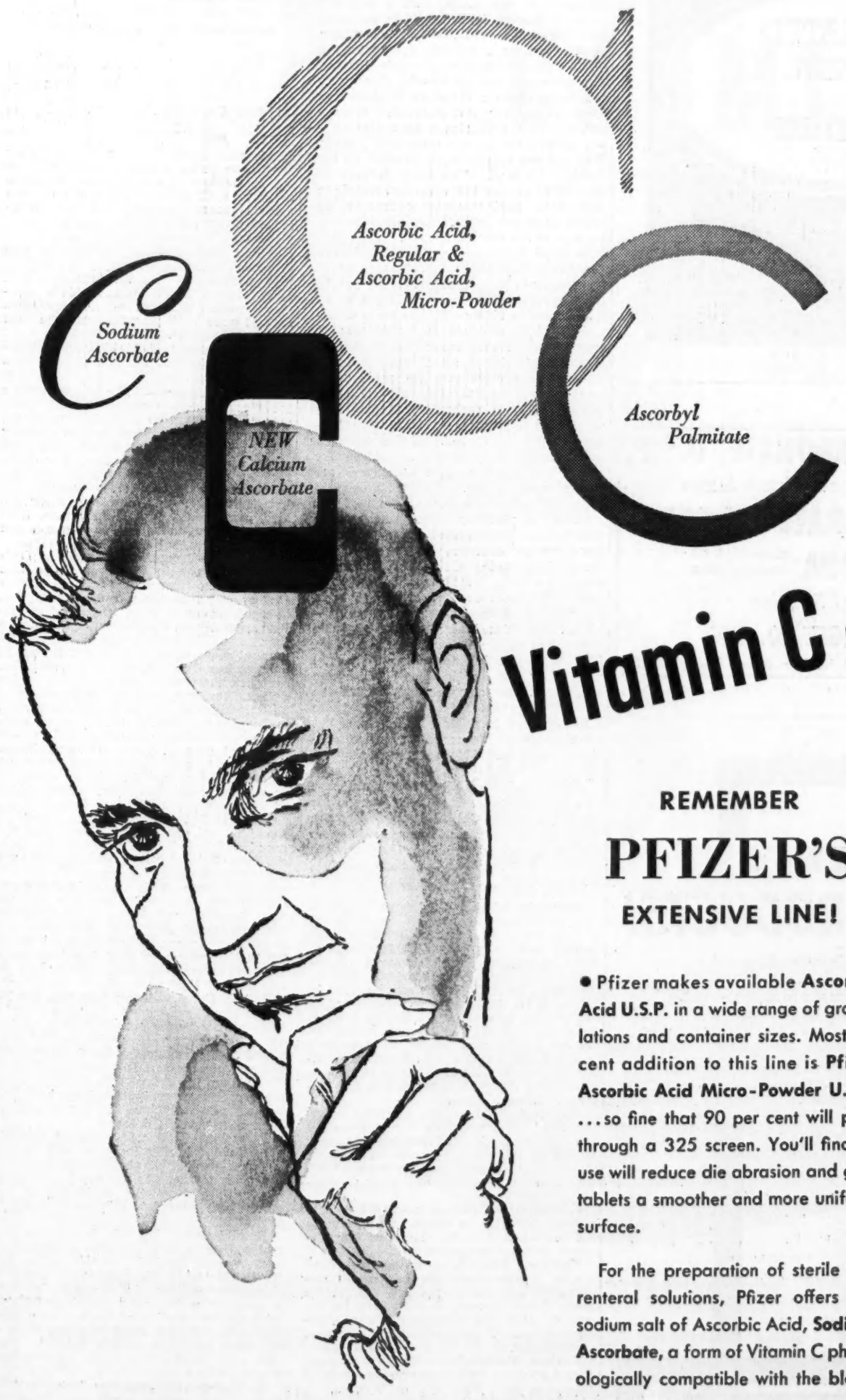
Establishment of such a commission must be approved by the governments concerned, which would be responsible for financing its activities. It was decided that a further meeting be held soon when delegates can report on the attitudes of their governments to the proposal. It was also decided that FAO be asked to provide the necessary secretariat for the commission, and to prepare the estimate of the initial details of expenditure.

Army Small Business Deals

The Armed Services Medical Procureme..t Agency, together with Army medical installations in the United States, awarded 45,482 out of a total of 69,684 procurement contracts to small business firms during the fiscal year ending last June 30, according to the Department of Defense.

Total expenditure involved in these transactions amounted to $356,375,500 with small business concerns receiving contracts amounting to $149,013,400 or 42.3 percent of the dollar total. This represents 73.8 percent of all contracts let for the medical services of the Army, Navy and the Air Force.

These figures represented only the contracts awarded directly to business firms employing fewer than 500 persons. A large and undetermined volume of business is also done by smaller establishments operating under subcontracts with larger manufacturers.



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		CHICAGO	

Heavy Chemicals

Another price decline featured the lead market last week. Weakness in the domestic situation was a reflection of the severe decline on the London Metal Exchange. It was stated that substantial sales of foreign lead had been made in New York at ½c. to 1c. below the domestic price. Copper remained firm with the differential still abnormally wide between American and foreign metal. Slow trading in quicksilver failed to disclose any price change for spot material. Production of primary aluminum set a new postwar record during the month of August. Zinc did not appear to be affected by the decline in lead. The current tonnage movement of zinc was described as fair to moderate. RFC made no change in tin prices although future shipments were a bit soft in the outside market.

Demand for caustic soda and soda ash continued good last week. The strike at an important plant had not ended late in the period but there was no indication of a shortage in either of these basic chemicals. Light ash was in better supply than dense with the outflow aggravated at some plants by a scarcity of boxcars. There was enough chlorine available to meet requirements. Rayon plants are getting all the carbon bisulphide they need with the tonnage movement reflecting the present capacity of the mills. A better inquiry developed for liquid caustic potash and the glass plants took on more potassum carbonate. A slight pickup in sales of sal ammoniac was noted for civilian dry-battery use. Ammonium bicarbonate commanded more attention from cracker bakeries who are preparing for holiday trade. Calcium chloride has started rolling for Winter use. Lead acetate had not charged at the close of the week and there were no price revisions recorded in lead nitrate or peroxide regardless of the lower metal quotation. Glacial acetic acid prices were unchanged although reports of increased production are not adding any prestige toward the stability of prices. Supplies of muriatic acid appeared in a little better shape but are not expected to assume a normal condition until the DDT plants resume operations.

Paper production based on a percentage of six-day capacity was 89.0 percent for the week ending Oct. 11, according to the American Paper and Pulp Association. This compared with 90.3R in the preceding week and 100.3 for the corresponding week in 1951.

Ammonia Liquor — August production increased 58 percent to 3,447,385 pounds from 2,182,202 in July. August output last year was 4,166,100 pounds. Total production from January 1 to August 31 amounted to 28,353,141 pounds, against 33,011,100 for the same period in 1951. Sales in August rocketed sharply to 2,000,397 pounds from 1,144,134 in July. Sales in August, 1951, were 3,630,000 pounds. Stocks on August 31 amounted to 1,938,146 pounds, compared with 1,529,317 on July 31 and 2,044,691 pounds on August 31, 1951, according to the Bureau of Mines.

Ammoniac, Sal—White granular is attracting more attention for dry-battery use. Civilian demand for batteries has picked up and this is reflected in the basic market. Producers' inventories are taking care of requirements without difficulty.

Ammonium Bicarbonate—Cracker bakeries are taking on stocks in preparation for the holiday trade. Supplies are adequate to meet requirements.

Calcium Chloride — Shipments have shown improvement for highway treatment on account of the dry weather in many areas. Inquiry is increasing for ice control also and shipments have started rolling. Supply situation remained comfortable.

Carbon Bisulphide — Stocks continued ample to meet both rayon and cellophane requirements. This market is mostly a contract affair and production is regulated largely by the extent of activity at rayon mills. The Textile Economics Bureau reports deliveries of rayon and acetate totaled 108,900,000 pounds last month, when the industry was operated at about 86 percent of capacity. But mills drew on inventories for shipments since they exceeded production by about 2,300,000 pounds.

Chlorine — Market position remained steady with demand sustained at a higher level than noted a month ago. Supplies for immediate shipment were available although a bit spotty. There are not too many tankcars at present and this has aggravated the movement at some producing points.

Cobalt Sulphate—July production was placed at 46,996 pounds gross weight by the Bureau of Mines. June output amounted to 28,207 pounds. July shipments were 34,934 pounds and stocks on July 31 were 7,353 pounds, compared with 5,419 on June 30. Total production from January, through July 31, was 382,655 pounds and output all last year totaled 675,025 pounds.

Copper Sulphate—While demand from the Florida citrus area has started, there was no expansion in sales last week and the movement to the Southeast to date is below normal. Industrial inquiry remained about steady. The increased export quota for the last quarter is expected to result in improved foreign shipments. Stocks have increased and immediate deliveries have continued available. Prices are firm and will be regulated by the course of the metal.

Fluorspar—Production of metallurgical-grade fluorspar in July was 3 percent more than in June and it was also 3 percent greater than the rate of consumption in steel plants in July, according to the Bureau of Mines. Production of acid-grade fluorspar of domestic origin in July was 66 percent more than in June but it was 18 percent less than the rate of consumption in hydrofluoric-acid plants in July. This deficit, however, was virtually offset y milling Mexican ore at a floatation plant in the United States; 2,198 tons of acid-grade concentrates were produced in July compared with 577 tons in June. These figures on fluorspar of Mexican origin are not included in the statistics of domestic production and shipments. Consumption of fluorspar was 25,672 tons in July, compared with 24,287 tons in June. Stocks of fluorspar at consumers' plants (201,252 tons) on July 31 were 7 percent more than on June 30, and stocks at mines (27,419 tons) were 1 percent greater.

Lead Nitrate—This market has not reflected the decline in metallic lead to date. Producers admit the background has been weakened but the price revision will not be made probably until first hand liquidation of stocks held has been completed. The same condition applies to lead acetate and lead peroxide.

Potash, Caustic—Buying interest has increased and producers' inventories have been reduced with some slightly behind on regular contract deliveries. It was stated that improvement has been general and not confined to any special industry. The pickup is attributed to the replenishment of consumer inventories which had become relatively low. Prompt shipments have been most in demand.

Potassium Carbonate—Inquiry has improved for this chemical also, only in this instance demand has stemmed mostly from the glass plants. The market is not in as free supply as at the beginning of the month but immediate shipments continue available.

Retail sales of TV sets during the normally slack Summer months of June, July and August totaled 700,490 units, the Radio-Television Manufacturers Association reported. The report was the first of a monthly series inaugurated by RTMA, with the cooperation of dealers, as a service to the industry. Radio receiver sales of all types, except auto sets, totaled 1,139,467 units during the same three-month period, RTMA said.

Soda Ash—Demand has broadened to some extent with producers reporting shipments good. An important plant had not settled a labor strike but any emergency in the supply situation appeared to be eliminated. A shortage of box cars was noted at certain producing points although this condition has not become general to date. Light ash was in better supply than dense.

Soda, Caustic—No serious shortage of either dry or liquid forms. The supply

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

Lead metal, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 19, 1951
95.13	95.13	95.13	96.12

(For Current Prices see Page 9)

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was not as long as noted a month ago due to an improvement in buying interest. Shipments were obtainable for immediate, prompt or future at current prices.

Sodium Bicarbonate — Supply continued good with demand leaning toward expansion. Producers have stocks fully adequate to meet the current extent of consuming demand.

Sodium Nitrite—Moderate improvement in consuming inquiry has brought the sales volume to a higher level. Demand has been mostly for chemical and meat curing uses. The textile industry has shown relatively little attention so far this month. Producers' inventories have kept immediate shipments available.

Sodium Silicate—Demand has assumed more steady dimensions for miscellaneous uses. There is no shortage of stocks and consumers can secure immediate shipments without difficulty.

Sulphur—Mine shipments of native sulphur in August were placed at 453,625 long tons by the Bureau of Mines. Shipments in July were 402,987. Shipments of recovered sulphur amounted to 29,691 long tons in August, compared with 28,436 in the preceding month. Apparent sales of native sulphur in August were 382,221 long tons, against 397,943 in July. Apparent sales of recovered sulphur were 29,580 long tons in August, compared with 28,506 in July.

Acids

Acetic — Although demand for glacial in the South is described as normal, inquiry from other areas has not increased to any important extent. Prices to date have not changed but reports of expanded production are not increasing confidence in the stability of the market.

Hydrofluoric — No serious shortage of stocks is reported, although the active extent of consuming demand is keeping producers' inventories down and the market is leaning toward the tight side at present.

Muriatic—Stocks appeared a bit more comfortable but were not in free supply. The fact that most of the DDT plants are closed temporarily has seriously lessened by-product acid normally available for market use.

Nitric—This market has maintained a steady degree of balance. Production has kept the supply situation comfortable while small lot sales have shown some expansion since the first of the month.

Oxalic—Slight increase in the inquiry for small lots for immediate shipment but carlot sales have been an exception of late. Supply position remained comfortable.

Sulphuric — Consuming requirements have been leveled off readily in this area under the maintenance of a comfortable supply. Demand was described as good but not of sufficient dimensions to tighten the market position.

Nonferrous Metals

Aluminum — Domestic production of primary aluminum set a new postwar record during the month of August, the Aluminum Association announced. The August output of 170,350,658 pounds represented a gain of 12.5 percent over the previous month, when 156,735,591 pounds were produced. It was an increase of 15.5 percent over the 147,630,992-pound output in August, 1951. The industry's building program continues to gain momentum, although at the present time production is being curtailed because of power shortages. Shipments of aluminum sheet and plate by member companies of the association's sheet division totaled 91,094,081 pounds, slightly higher than the 85,049,202 pounds shipped the previous month, and about on a par with August, 1951, shipments of 91,888,728 pounds.

Aluminum foil shipped by the association's foil division showed a gain of almost a million pounds over July. August shipments were 6,445,778 pounds as compared with 5,561,976 pounds shipped during the previous month, but were less than last year's August shipments of 7,877,325 pounds. Shipments of permanent-mold rough castings (except pistons) by the foundry division held to about the same level as preceding months. The total for August was 2,386,682 pounds, with a value of $1,369,882, compared with July shipments of 2,183,511 pounds, with a value of $1,216,008. Last year's August shipments totaled 2,596,489 pounds, with a value of $1,512,423.

Chromite — Consumption of chromite continued at a low rate in July due to work stoppages in the steel industry, according to the Bureau of Mines. Chrome ore used for refractory purposes dropped 16 percent from June; ore used for ferroalloys and stainless steels (metallurgical

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grade) increased 12 percent; ore consumed in chrome chemicals decreased 41 percent to a new low for the year after having turned upward in June for the first time in 4 months. Although the use pattern shifted sharply from June to July the over-all consumption of ore was virtually unchanged and totaled 72,938 short tons.

Cobalt—Production (cobalt content) of cobalt concentrates was 70,364 pounds in July compared with 62,273 pounds in June. There were no shipments in June or July. Imports of cobalt into the United States were 66 percent greater in July than in June. Receipts of white alloy (crude) were 2 percent larger, but imports of metal were up 77 percent. Imports of oxide in July were 70,003 pounds (gross weight) compared with none in June, according to the Department of Commerce and the Bureau of Mines.

Copper—Production of refined copper in the United States during September was placed at 98,950 tons by the Copper Institute. This compared with 95,366 tons in the preceding month and was the highest monthly production so far this year. Deliveries to fabricators in September amounted to 134,689 tons. Stocks on September 30 were 71,456 tons, compared with 83,771 on August 31. Daily average production was 4,490 tons in September, a new monthly high for 1952. Primary copper produced in September was placed at 78,691 tons, against 75,457 in August. Output of refined copper outside the U.S.A. amounted to 96,511 tons in September, compared with 98,682 in August. Stocks on September 30 were 157,450 tons, against 167,331 on August 31.

Lead—Priced lower at 14c. per pound, New York and 13.80c. at St. Louis. The downward revision reflected severe price declines on the London Metal Exchange since private dealings were resumed on October 1.

Mine production of recoverable lead in the United States in August was slightly less than the July output, and 12 percent below the January-June average, according to the Bureau of Mines. Production for the month totaled 29,649 tons compared with 29,849 tons in July and a monthly average of 32,347 tons in 1951. The average daily rate of production was 956 tons compared with 963 tons in July. Recoverable lead output from the west central states of Missouri, Oklahoma, and Kansas declined from 12,363 tons in July to 11,080 tons in August, a 10 percent reduction. Production from the southeastern Missouri district was consistent with that of the previous month but output from the Tri-State region continued to decline as many of the small producers shut down their operations because of another drop in the zinc price. Mines in states east of the Mississippi River produced 791 tons of recoverable lead in August or 11 percent less than the July total. Production from the combined western states increased 7 percent to 17,778 tons in August. With the exception of Colorado, Idaho, and California where output declined slightly, all of the states reported increases ranging up to 27 percent.

Quicksilver — No important price change was recorded last week. Consumer demand was confined to actual requirements with spot material scarce and well held. Small lots were priced at $195 per flask on spot at the close of the week.

San Francisco.—Stocks remained limited on the local market with activity quiet. Metal quoted $196-$198 per flask.

Tin—Imports of metallic tin were 9,951 long tons in June (7,418 in May). Receipts of ore in terms of contained metal amounted to 3,070 tons in June (934 tons in May), according to the Bureau of Mines. Ore and metal imports were augmented by 499 long tons (gross weight —chief value tin) of alloys brought into the country in June, mainly from the Netherlands in the form of a 94 percent tin alloy. Imports for consumption of this class were 397 tons in January, 753 in February, 1,182 in March, 578 in April and 1,256 tons in May. World consumption of tin has been falling off at a greater rate than production. During the first six months of 1952 estimated world mine production was 82,100 (consumption 62,500), compared with 82,700 (consumption 65,700) during the previous 6 month period (July-December 1951). During January-June 1951 world mine production exceeded world consumption by 19,600 tons or by over 3,200 tons per month. In June, world mine production was 14,400 tons and world consumption only 9,500.

Zinc—Consumption of slab zinc in the United States in June declined 36 percent to 43,312 short tons or the lowest monthly rate since February, 1946, when the total was 41,515 tons, according to the Bureau of Mines. As a result of the steel strike which began June 2, the total slab zinc consumed for galvanizing dropped 63 percent. Declines of 14 and 7 percent were reported in the total metal used in zinc-base alloys and brass and bronze products, respectively. Stocks of slab zinc at consumers' plants declined 3 percent whereas at domestic smelters the inventory on June 30 totaled 63,342 tons, nearly double the quantity on hand on June 1 and the highest monthly inventory at these smelters since February 1950. Zinc dust producers reported an 8 percent decline in their stocks of dust.

Dierker Quits Alcoa Post After Forty-Three Years

J. H. Dierker, chief production planner for the Albron Division of Aluminum Company of America, Pittsburgh, Pa., has retired after forty-three years' service.

Mr. Dierker's first job was with the traffic department of the Carnegie Steel Company. Several years later he entered the paint industry with McClintock-Irvine Company. His career with Alcoa began in 1909 in the accounting department at New Kensington, Pa. Later Mr. Dierker was transferred to the sales department and in 1929 was assigned to the production planning division.

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Nitrogen Supply Seen Ample For World Consumption to '55

Nitrogen production will provide for any normal increase in world nitrogen consumption up to 1955, T. Tertius Aikman, chairman of Aikman (London), Ltd., declared recently at a luncheon in Paris marking the fiftieth anniversary of his entering the firm.

Mr. Aikman cautioned, however, that any unexpected demand in the United States or the Far East might well create a shortage, noting that this may depend on an increased supply of superphosphate, output of which is not at present keeping up with the increase in nitrogen and potash. To obtain the best results in agriculture, he said, the three fertilizers should all be used.

Turning in the price situation, he said, "During the last six months, owing to a temporary surplus in stocks, there has been a falling in prices, but I cannot help feeling that this setback will not continue when the inherently strong position of nitrogen is realized. World stocks of nitrogen are not excessive, and, in fact, are probably below prewar figures.

Phila. Textile Chemists To Hear Judd Oct. 24

The Philadelphia section of the American Association of Textile Chemists and Colorists will meet the evening of October 24 at the Penn Sheraton hotel in that city. Speaker will be Dr. Deane B. Judd, chief of the colorimetry unit, National Bureau of Standards, who will discuss "Color Formulation, Color Measurement and Color Blindness."

Troy Chemical Names Agent

Troy Chemical Company, New York, has appointed Grant Chemical Company exclusive agents in the New England territory, which includes Maine, New Hampshire, Vermont, Rhode Island, Connecticut and Massachusetts. Donald Grant, who formed Grant Chemical this year, was previously associated with Bonner Chemical Company, Atlas Powder Company and Boston Varnish Company.

Stein Equipment to Move

Stein Equipment Company plans to move its New York office some time after November 1, consolidating it with its shops and warehouses at 107-115 Eighth street, Brooklyn, N. Y.

Packaging Institute Data Distributed

The text of a new, standardized testing procedure has been distributed to members of the Packaging Institute, according to a joint announcement by F. S. Leinbach, general chairman of technical committees, and Dr. L. W. Elder, chairman of the food committee. Designated as PI Food 1p-52, the newly-published test method carries the title, "Procedure for Determination of Humidity-Moisture Equilibria of Food Products."

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Cyanamid Creates Three Regional Manager Posts

American Cyanamid Company, New York, has announced the creation of three new positions in its paper chemicals department. A. C. Bate, formerly New England district manager for the industrial chemicals division, has been named eastern regional manager. He will supervise sales of all paper chemicals in an area which includes New England, and other Atlantic seaboard states extending as far south as the west part of Virginia. Mr. Bates' headquarters will be in Boston.

K. E. Youngchild, formerly product supervisor of paper resins in New York, has been appointed southern regional manager with headquarters in Mobile, Ala. He will supervise chemical sales in an area extending from Richmond, Va., to and including Texas and Oklahoma. George E. Fromm, formerly product supervisor of wax and rosin sizes in New York, has been named western regional manager with headquarters in Chicago. Mr. Fromm will supervise all middle west and western sales.

Borden Adds Dr. Dean

Dr. Robert B. Dean, former assistant professor of chemistry and director of chemical research at the University of Oregon, has joined the Borden Company's chemical division as chief analytical chemist at its Bainbridge, N. Y., resin plant. Author of "Modern Colloids," Dr. Dean was a consultant for the chemical division's Springfield, Ore., plant before assuming the new post.

Downes Quits Brown-Allen

Dan D. Downes has resigned as sales manager of the Brown-Allen Chemical Company, Staten Island, N. Y., formerly Brown Oil & Chemical Corporation, it was announced recently. Mr. Downes will announce his future plans at a later date, the announcement said.

South Africa Opens Uranium Unit

Prime Minister Daniel Malan recently opened South Africa's first uranium plant at the West Rand Consolidated Mines, near Krugersdorp. He announced that in addition to producing uranium, several gold mines would manufacture sulphuric acid, to be used primarily in uranium extraction plants.

Trade Briefs

Leo H. McCormick has resigned as an assistant to the director of the Office of Price Stabilization.

Robert Gair Company, New York, recently held the twentieth annual banquet for members of its Gair Old Timers Association.

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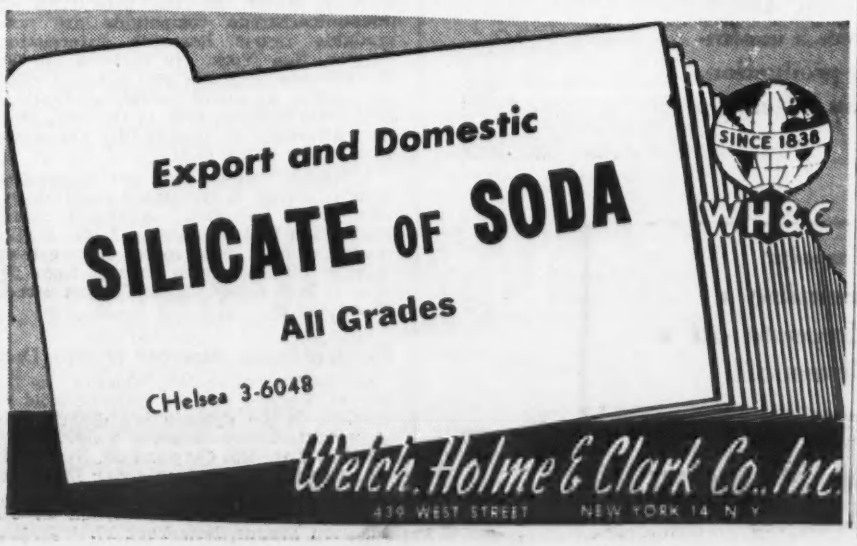

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Nat'l Polychemicals Names Dr. Hill Assistant Manager

National Polychemicals, Inc., Boston, has announced the appointment of Dr. Henry A. Hill as assistant manager. Dr. Hill will be responsible for all manufacturing and technical activities of the company, according to Edward V. Osberg, general manager.

Dr. Hill comes to National Polychemicals from the Dewey & Almy Chemical Company, Cambridge, Mass. Before that he had been director of research for the Atlantic Research Associates and vice-president of the National Atlantic Research Corporation. National Polychemicals, recently organized to manufacture specialty organic chemicals, is building a plant in Wilmington, Mass., for its various projected manufacturing operations, the first of which is expected to be on stream early in 1953.

Hollingshead Ups Severson

Donald O. Severson, vice-president and director of sales and merchandising for the R. M. Hollingshead Corporation, Camden, N. J., has been elected a member of the corporation's executive committee, ex-officio, it has been announced by Wilbur H. Norton, president.

Continental Can Announces Changes in Top Personnel

Continental Can Company of Canada, Ltd., has announced the appointment of Frank A. Whittall as president, to succeed Harry A. Rapelye, who has retired. The parent company in New York, meanwhile, has revealed the appointments of Lenvik Ylvisaker and Wilbur K. Neuman as district general managers in the eastern (metal) division. The central metal division has reported the promotion of W. B. Larkin as division manager of sales in the Chicago office and the naming of P. L. Brachle to succeed him.

Mr. Whittall started in 1922 as an apprentice for the Whittall Can Company, a family business. He subsequently served as sales manager and director. In 1935, the Whittall Company became part of the Continental organization. In 1943, Mr. Whittall was named vice-president in charge of sales for Continental Can Company of Canada, Ltd., and in June last year was appointed executive vice-president. Mr. Rapelye had been with the Continental organization since 1929 and became president of the Canadian concern in 1950.

Mr. Ylvisaker will be general manager of the northeastern district. His territory will include plants in Syracuse, N. Y.; Paterson and Passaic, N. J.; Malden, Mass., and Pittsburgh and Oil City, Pa., and district sales offices in Boston; New York; Syracuse, N. Y.; Cleveland, Ohio, and Pittsburgh, Pa. Mr. Ylvisaker was formerly manager of the company's Pittsburgh plant. Mr. Neuman will be general manager of the southeastern district which includes plants in Birmingham, Ala.; Tampa and Auburndale, Fla., and Baltimore and Hurlock, Md., and district sales offices in Tampa; Atlanta, Ga.; Baltimore and Philadelphia. He was formerly director of product sales.

Mr. Larkin began his career in the manufacturing department of Continental, later transferring to sales. He was, successively, sales manager of the Milwaukee district; chief of the metal can division of the War Production Board; sales manager of the Chicago city district; and sales manager of the general line, prior to his present assignment. Mr. Brachle was with Continental from 1917 to 1948. He returned in 1950 and, until assuming his present position, was assistant to the manager of sales.

Tin Consumption Down 16 Percent During 1951

Consumption of primary and secondary tin in the United States decreased 16 percent in 1951, according to final figures released by the Bureau of Mines. The tin content of manufactured products was 88,169 long tons in 1951 compared with 104,464 tons in 1950. The tinplate and terneplate industry decreased its use of tin 14 percent, while the total quantity used by all other industries was 16 percent lower.

Three items—tinplate, bronze and brass, and solder—accounted for most of the tin consumed last year, with 30,522 long tons, 21,772 tons and 19,810 tons, respectively. Metal used in tin oxide last year amounted to 398 tons, while tin used in chemicals other than oxide totaled 802 tons.

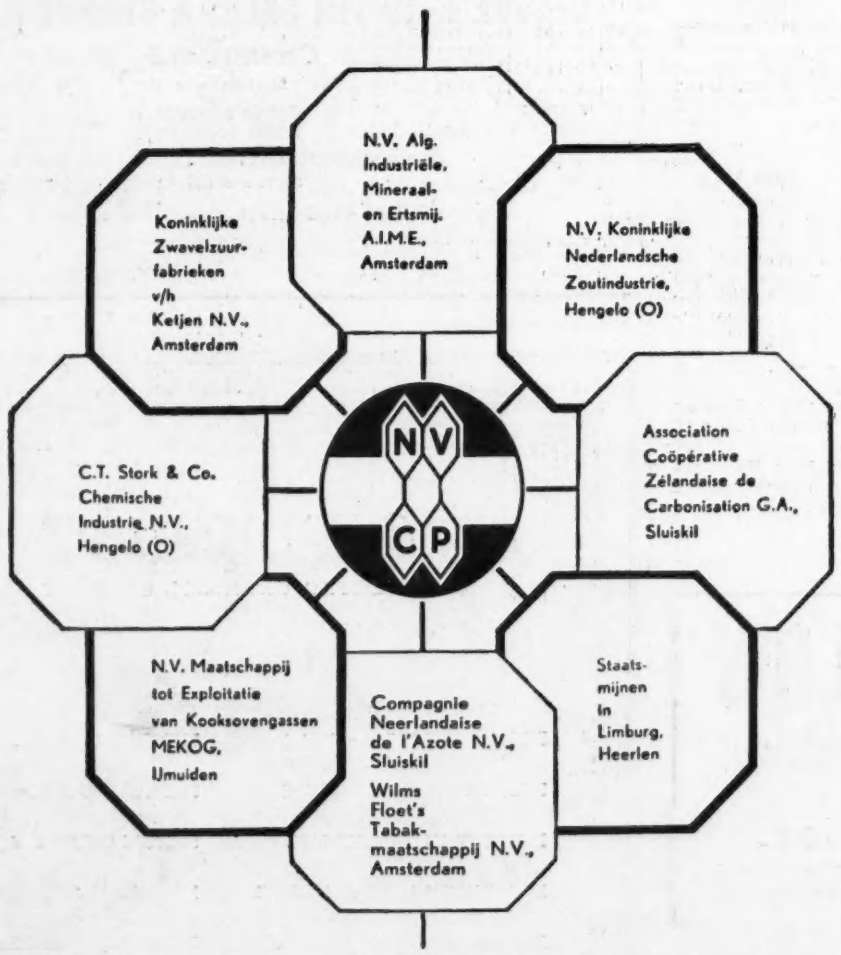
Thiosemicarbazone Data Offered

Translations of patent applications from the I. G. Farbenindustrie, Germany, and one of its successor companies, Farbenfabriken Bayer, on the production of thiosemicarbazone compounds are now available from Research Information Service, New York. In bulletin No. 70, the concern abstracts and gives a comprehensive listing of patent applications filed from October, 1943, to October, 1950, thus affording an opportunity for a review of the entire field.

A total of twenty-eight patent applications is ofered in translated report form, with prices indicated. A recent patent application by the Schering A. G., Berlin, is also included. Free copies of its catalog may be obtained upon request from Research Information at 53 Nassau street, New York 38.

Heyden Issues 'Dacron' Dyeing Data

Techniques of dyeing "Dacron" by the use of benzoic acid or salicylic acid as carriers in the dyebath are described in a new technical bulletin published by Heyden Chemical Corporation, New York. The booklet, entitled, "Carrier Dyeing of 'Dacron' with Benzoic or Salicylic Acid," may be obtained from Heyden at 342 Madison avenue, New York 17.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Textile and Leather Chemicals

Consumer demand for textile and leather chemicals last week was reported fair, and in most instances was confined to prompt needs. There was no change pricewise and the market remained on a steady basis.

Demand for sizing materials was spotty, while withdrawals against former contracts continued at a good rate. Domestic potato starch continued scarce and buying interest has switched to imported starch, which was offered for shipment from Holland and Denmark. Imported starch also was in fair request for spot delivery and volume of sales has been steadily increasing, due to the scarcity of the domestic material. Tapioca flour continued in the doldrums. High cost of replacements from abroad and for spot delivery resulted in users substituting other materials. Demand for corn dextrin and starch continued in good volume. Interest in sago flour was slow for shipment from abroad and on the spot.

Tanners showed a good inquiry for replacements, but trading continued restricted to prompt shipments. Primary markets remained steady, despite spotty demand.

Wool production in the United States in 1953 probably will be about the same as this year, according to the Department of Agriculture, but consumption should be up a little if defense requirements do not decline, the depar'ment added. Combined output of shorn and pulled wool this year is expected to total about 260,000,000 pounds, grease basis. The wool shorn and to be shorn this year was estimated early in August by the department at 229.800,000 pounds. This is about 4,000,000 pounds or 2 percent more than the quantity shorn last year, but about 41 percent less than the record clip of 388,000,000 pounds in 1942.

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 19, 1951
100.44	100.44	104.08	99.03

(*For Current Prices see Page 9*)

Chemicals

Acetic Anhydride—Consumers absorbed larger quantities against current contracts. Demand for spot delivery was fairly active. Market remained steady and quotably unchanged.

Bichromates — Steady consuming demand continued against former contracts. New business was spotty chiefly for immediate delivery. Prices were unchanged and firm for all grades.

Sodium Acetate—Consumer demand was fairly active, chiefly for prompt delivery. Supplies were ample and held at prevailing quotations.

Sodium Hydrosulphite—Consuming demand lacked snap and was confined to actual requirements. Prices were unchanged, but it was intimated that carlot quantities were available at a discount.

Sulphonated Oils—Buying interest was restricted to immediate requirements. All varieties were quotably unchanged.

Sizing Materials

Blood Albumin — Albumin continued steady under active demand for prompt delivery, which was on a par with production. Prices were maintained at 70c. to 80c. per pound, as to quality and quantity. Inquiry for soluble dried blood was light and confined to small lots for immediate needs. Quotations were unchanged at 17c. to 18c. per pound, depending upon quantity.

Corn Dextrin—Market remained steady due to improved demand for prompt requirements. All grades were well held at former levels. Gum was quoted at $9.10 per 100 pounds, paper bags, carlots, New York; canary, $8.84; dark, $8.94, and white, $8.68; same basis. Less carlots, 15c. per 100 pounds more.

Corn Starch — Good buying interest was noted for prompt delivery. Prices were held at former levels. Pearl was quoted at $7.29 per 100 pounds, paper bags, carlots, New York, and powder at $7.41 per 100 pounds, same basis. Less carlots were 15c. higher.

Government crop report forecast corn production as of October 1 higher at 3,256,550,000 bushels, compared with 3,185,237.000 bushels, September 1 and 2,941,423,000 bushels, produced in 1951. The 10-year average (1941-50) is 3,011,652,000 bushels. Visible corn supply increased 900,000 bushels to 16,392,000 bushels for the week ended October 10, compared with 29,773,000 bushels for the same time last year, according to the Chicago Board of Trade.

Egg Albumen — Trading was reported moderate for immediate delivery. Market was steady and unchanged. Flake was well held at $2.39 to $2.41 per pound, and powder at $2.43 to $2.45 per pound, according to quantity. Technical was in fair request and maintained at $1.03 to $1.08 per pound, as to seller and quantity. Egg production in September was reported at 4,108,000,000 by the Department of Agriculture, against 4,155,000,000 in August and 3,943,000,000 a year ago. The January-September output totalled 47,498,000,000, compared with 45,978,000,000 during the same period last year and 10-year average of 43,899,000,000.

Egg Yolk—Buying interest was more active and consumers took good sized quantities for prompt requirements. Prices ruled steady and unchanged at $1.09 to $1.11 per pound, according to quantity.

Potato Starch—Consumer demand continued light and spotty. Market, however, remained steady and quotably unchanged. Danish was quoted at 8.60c. per pound, carlots exdock as to quantity and Dutch at 8.85c. to 8.90c. per pound, carlots, exdock as to packing. Domestic starch situation continued tight and unimproved. Production in Idaho has been reduced by the scarcity and high price of culls. Maine mills were still closed and their reopening depends on the available supply and cost of culls. On spot imported starch ranged from 10c. to 11c. per pound, exwarehouse, as to quantity, and domestic, 11c. to 12c., same basis. Department of Agriculture indicated a larger potato crop as of October, totaling 345,561,000 bushels against 337,685,000 bushels, September 1 and final 1951 production of 325,708,000 bushels. The 10-year average is 414,528,000 bushels. Yield per acre was placed at 243.7 bushels against 238.1 bushels, the previous month.

Tapioca Flour—This market continued in the doldrums. Stocks were scarce here and at primary sources. Prices were merely nominal. Shipments were quoted nominally at 12¾c. to 13¼c. per pound, carlots exdock. Supplies on spot ranged from 14c. to 14½c. per pound, exwarehouse, as to seller and quantity.

Tanning Materials

Chestnut Extract—Trading was spotty, and restricted to actual needs. Supplies were light and well held at current quotations.

Cutch — This market was quiet, but steady. Shipments were maintained at 8¼c. per pound, exdock.

Mangrove Bark—Business was restricted to an occasional lot for prompt shipment. Prices were unchanged. South American bark was quoted at $60 per ton, exdock and African, $78 per ton, same basis.

Myrobalans—Trading lacked snap. Offers for shipments were maintained at former quotations. Ordinary JI's were held at $45 per ton, exdock; assorted at $48 per ton, and crushed, $65 to $66 per ton, same basis.

Quebracho Extract—Inquiry for prompt shipment was fairly active. Business was reported spotty. Market remained firm at current prices. Solid ordinary was quoted at 11 31/64c. per pound, carlots, exdock, and clarified, 12 3/16c. same basis.

The Argentine Government has moved to stimulate exports of quebracho and urunday tanning extracts. As a special inducement to exporters of the extracts, the central bank announced that hereafter they can sell 60 percent of the foreign exchange brought by their shipments at the preferential rate of 7.50 pesos to the dollar and the rest at the official free rate of 14 pesos to the dollar.

Sumac Leaf—Shipments were inactive. Recent price reduction has not improved buying interest. Leaf for shipment was offered at $115 per ton, exdock.

Wattle—While business was light, the market remained on a steady basis. Prices were without change and well held. Fair average bark was quoted at $103 per ton, and merchantable, $99 to $100 per ton, exdock, South African extract was held at 11⅛c. and East African, 10⅞c. per pound, exdock, plus duty.

For Late Market Developments, See Page 4

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Agricultural Chemicals

Prices for fertilizer materials continued steady last week. Buying interest while moderate was of seasonal dimensions with expansion expected next month when the small mixers swing into operation. Ammonium sulphate remained tight with some reduction in backlog orders and material moving as rapidly as produced. Gradual improvement in the sulphur supply suggests a better balanced position in superphosphate. Producers of super in this area, however, are not inclined to consider additional business until there is concrete assurance that more sulphur will be made available. Domestic potash shipments held a satisfactory seasonal average but imported potash is not moving too freely at this time. Calcium ammonium nitrate was offered at former prices without commanding unusual attention. It looked as though Japan is about ready to cover phosphate rock requirements for the first quarter of 1953. Inventories of imported sodium nitrate are being built up at stock-points to meet future wants.

Packing-house byproducts were relatively quiet with just about enough demand to sustain former prices. Limited offerings of castor pomace found a ready market. Fish meal was fairly steady with stocks moderate to liberal and demand seasonally good. Imported meal offered rather keen competition to domestic material.

Market Trends

Prices Advanced
None

Prices Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 19, 1951
113.56	113.56	113.53	113.19

(*For Current Prices see Page 9*)

Fertilizer Materials

Ammonium Sulphate — August production of cokeoven sulphate amounted to 150,077,443 pounds, a gain of 188.5 percent, over the 52,020,025 pounds made in July according to the Bureau of Mines. Sales in August were 139,799,301 pounds, compared with 36,865,643 in July and 149,048,900 pounds in August, 1951. Stocks on August 31 were 69,124,012 pounds against 59,244,001 on July 31 and 79,492,230 pounds on August 31, 1951. Stocks are moving as rapidly as produced leaving the supply situation tight.

Bone Meal—Stockfeed demand for domestic active enough to hold the steamed grade steady at $75 per ton, in bags, carlots, works.

Castor Pomace—This market could be active if stocks were free. As it is limited offerings are readily absorbed by the fertilizer trade at former prices.

Dried Blood — Not much activity but former prices were sustained at $8 New York and $7.75 per unit of ammonia at Chicago.

Argentina's exports of dried blood decreased approximately 40 percent, to 2,870 tons from 3,710 tons in the first half of 1951. The United Kingdom and Peru were the leading purchasers.

Fish Meal — Importations of fish meal for feed and fertilizer during June amounted to 17,690 tons, compared with 7,774 tons for the corresponding month in 1951. During the first six months of 1952, imports totaled 138,238 tons compared with 59,283 for the same period in 1951, according to the Department of the Interior. The Department describes the market as fairly steady, supplies moderate to liberal and demand fairly good. Production of fish meal through July was about the same level as in 1951. This period of 1951 contributed about one half of the year's output. The next two months' production is usually heavy and will test the market's absorbtive capacity. Importations of fish meal and scrap have been flowing in at an unprecedented rate. In the first six months of 1952 these imports were emphatically above the entire year of 1951.

Phosphate Rock—Demand for domestic contract shipments continued steady, with stocks not too plentiful in high or low grade Florida rock. It looked as though Japan was about to start covering requirements for the first quarter of 1953. Trade estimates place the quantity at 130,000 to 140,000 tons.

Potassium Muriate—Not much to note aside of a demand that is normal for domestic contract shipments, with producers capable of making deliveries promptly. A short-lived strike at one plant did not seriously affect the movement, according to trade reports. Imported material is not attracting unusual attention at present.

Sodium Nitrate—Imported nitrate is being stored at stock points in order to take care of future requirements. Agricultural demand at present has not exceeded seasonal limits.

Superphosphate — Supply conditions in some areas have shown improvement, although there are producers who are turning down additional business because they are not sure of securing more sulphur. OPS has advanced the ceiling price at Lake Charles, La., to $1.015 per unit of a-p-a on account of high phosphate rock freights.

Tankage—Market sustained at $8 per unit of ammonia here and at $8.75 in Chicago. Demand and offerings both light.

Argentina's exports of tankage totaled 15,615 metric tons in the first half of 1952, a decline of 23 percent from those in the corresponding period of 1951. Shipments were principally to European countries, the United States, and Brazil.

*Fertilizer Tag Sales: August**

	Equivalent tons August 1952	August 1951	Jan.-July 1952
Virginia	.....	.....	.....
N. Carolina	.....	.....	1,596,000
S. Carolina	24,000	22,000	753,000
Georgia	10,000	10,000	1,132,000
Florida	45,000	37,000	725,000
Alabama	.....	.....	924,000
Tennessee	15,000	9,000	466,000
Arkansas	8,000	7,000	312,000
Louisiana	11,000	9,000	249,000
Texas	20,000	15,000	399,000
Oklahoma	.....	.....	116,000
Total South	133,000	109,000	6,672,000
Indiana	73,000	86,000	648,000
Missouri	99,000	58,000	539,000
Total Midwest	172,000	144,000	1,187,000
California	.....	.....	.....
Total other	.....	.....	.....
Grand total	305,000	253,000	7,859,000

* Information furnished by the National Fertilizer Association.

Los Angeles Market

Los Angeles.—Increased inquiry, direct from consumers, has been noted by the local trade during the past two weeks. Trading continues moderate and supplies are considered adequate to meet present requirements. A strong eastern market for organic materials held throughout the week with trading light to moderate with quotations slightly higher than the preceding report. Domestic fish meal prices remained at ceiling with the local market quiet in view of present feed business conditions; imported meal was higher, quoted $2.26-$2.30 per unit of protein, sacks included, with supplies limited.

Ruling prices were:—Ammonium nitrate—$85.30 per ton, domestic, f.o.b. Los Angeles, $86.84 per ton for Canadian material, f.o.b. Los Angeles.

Ammonium phosphate—$76.14 per ton in bags, 16 20 grade, f.o.b. Los Angeles. $100.64 per ton in bags, 11 48 grade, f.o.b. Los Angeles. Both Canadian material.

Ammonium sulphate—$54.87 per ton in bags, f.o.b. Los Angeles, $3 less in bulk. Canadian material same.

Blood meal—$6.75 per unit of ammonia at source. Bone meal—$84-$86.50 per ton, imported, 1/65 meal, c.i.f., Los Angeles Harbor. Domestic—$90-$92 per ton, f.o.b. Los Angeles.

Calcium nitrate—$48 per ton, 15½ percent nitrogen, c.i.f., Los Angeles Harbor.

Fish meals—$146.90 per ton nominal, 65 percent sardine, Los Angeles or Monterey, $135.60 per ton, 60 percent tuna, f.o.b. San Pedro, $158.90 per ton, 70 percent Alaskan herring, f.o.b. Seattle.

Potassium muriate—50½c. per unit in bulk, f.o.b. Trona. Potassium sulphate—95 to 98 percent K_2SO_4, 86c. per unit, f.o.b. Trona.

Sodium nitrate—$58.50 per ton in 100-pound bags, f.o.b. Los Angeles. $53.50 per ton in bulk.

Superphosphate—$23.70 per ton in bulk, f.o.b. Los Angeles. $4 extra for bags. Ammoniated—$29.50 per ton in bulk, f.o.b. Los Angeles, 3/16 grade. $4 additional for bags. Triple—$68.50-$72 per ton for bulk, 47 percent a.p.a., f.o.b. Los Angeles.

Tankage—Wet rendered, fertilizer grades, $6.25 per unit of ammonia, f.o.b. producing plant.

Pesticides

No unusual developments last week. The market followed quiet lines with buyers showing relatively little interest at present. Judging from trade reports, there is no shortage of stocks in most varieties as a result of the low infestation this year. The desire of some suppliers of DDT to liquidate carry-over material has kept prices rather flexible and the same condition appeared to exist in cotton dusts. Citrus fruit growers in Florida have started to take on some copper sulphate and are expected to increase their purchases as the season progresses. It is

For Late Market Developments, See Page 4

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stated that output of BHC is practically at a standstill with producers undecided as to when operations will be resumed. Export sales are down much lower than a year ago with Europe a keen competitor for South American trade.

Calcium Arsenate—July production was placed at 704 tons by the Bureau of the Census. June total was revised to 630 tons and in July last year 2,046 tons were made.

DDT has been used in Syria on an experimental basis in the spraying of fruits and vegetables. The spraying of houses and villages has not increased, although the authorities are hoping for more activity in this direction, states the Department of Commerce. Trade sources report that the Ministries of Agriculture and Hygiene and Public Assistance are experimenting with a mixture of benzene hexachloride and DDT for agricultural and sanitary purposes.

Benzene hexachloride has been produced in West Bengal, India, since May 1952 from domestic raw materials. There is a factory at Rishra, near Calcutta.

Trade Briefs

Paul H. Boyd has been named district sales manager at Los Angeles for Union Oil Company.

M. W. Kellogg Company, Jersey City, N. J., recently added fourteen new employees to its Quarter Century Club.

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MICROCRYSTALLINE
WAXES

SHELL

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Petroleum Derivatives

A reduction of one eighth of a cent per gallon was made during the week for No. 1 furnace fuel oil in the group three area. A sudden cold spell that increased demand for this fuel oil was said to have been the cause. Other fuel oil prices remained unchanged and inventories were at high levels in almost all areas, indicating that most areas were well prepared for whatever cold weather the next few months would bring. The rate of crude oil production in past weeks has been high, bringing stocks up to a level greater than any reached in recent years. Production and sales of natural gas have shown considerable increases and were reported at high peaks.

With demand for toluol continuing to be great, both from military and industrial consumers, there were not sufficient supplies for all requiring it. Supplies of xylol were easier, as demands were more readily filled. Other solvents could be obtained without difficulty, since production was maintained at a level that permitted satisfactory shipping schedules.

Waxes were in a firmer position than in past weeks because of increases in demand due chiefly to those industrial users who ordinarily place heavier orders in the fall and winter seasons. Manufacturers reported that they were able to fill orders without difficulty from current production. Liquefied petroleum gases were settled as demand remained heavy enough to prevent appearance of distress material. Prices were steady as quoted. Domestic demand for mineral oils was reported to be good and at a level somewhat increased during the past week.

Solvents and Diluents

Mineral Spirits—Consumers found that ample supplies were available to fill their needs easily. Production has been maintained to a degree that made satisfactory deliveries possible for all those requiring the material. Nevertheless, with demand as active as it has been in recent weeks, very little oversupply deveveloped. Prices of the material continued in effect without change.

Solvent Naphtha—Demand was good for all grades of the material, keeping the amount available on the market from developing into an oversupply. The consumer was able to obtain all that was required of the 100° material without difficulty. Demand for the 150° material was greater, however, and the makers were unable to fill all requirements from current production. The prices for all grades of the material were unchanged from previous weeks.

Stoddard Solvent—Production was high enough to satisfy demand from all quarters, it was reported in the past week. The current level of production was expected to keep the material in good supply for the immediate future. Consumer requirements have remained steady at the level attained in past months, showing little inclination to rise or fall sharply, and thus making production schedules easier to maintain. Users of the material found it at unchanged prices during the past week.

Toluol—A difficult supply situation continued to plague users of the material. As yet no easing in this condition of tightness was noticeable to those in the trade. Military requirements continued to take a large part of production, not only for aviation gasoline but for nitration purposes as well. Industrial users took all that was available for them and could have taken more than those quantities. This short supply situation defied manufacturers' attempts to relieve it, for most agreed that no immediate easing could be foreseen. The price picture remained unchanged.

V.M.&P. Naphtha—A good demand was reported, as some industrial users increased their requirements while others maintained their demands at the previous levels. Production was able to meet the need for the material without difficulty by continuing at approximately the levels of recent months. Prices were steady and unchanged.

Xylol—Demand was reported to have increased over the already good levels of past weeks. At this high rate of consumption, current production was just able to satisfy the demands of the market and was not turned to a buildup of stocks in any great degree. Production of the material was affected by the tightness of toluol, which led manufacturers to turn at least some potential production to the scarcer material.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended October 4, totaled 264,153,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 265,901,000 barrels for the preceding week, this represents a decrease of 1,748,000 barrels comprising a decrease of 1,140,000 barrels in stocks of domestic crude and a decrease of 608,000 barrels in stocks of foreign crude.

Market Trends

Prices Advanced

Fuel oil, furnace, group 3, No. 1, ¼c. per gal.

Prices Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month
104.12	104.12	103.20

(*For Current Prices see Page 9*)

Lighter Fractions

LPG's—Sales were brisker as customers placed orders for a good deal more of their winter requirements than they had done so far this month. Interest was good in all of the liquefied petroleum gases, with none receiving any unexpected attention from consumers. Manufacturers reported that they were filling orders easily and to the limit asked. Prices held firm as quoted in the immediate past, with the shading that was noted during summer months no longer encountered.

Waxes

Microcrystalline—Prices were firm for all grades as demand remained steady at the higher levels reached in past weeks. Although the present market activity left some room for improvement according to many manufacturers' opinions, it was in a healthier state than in the previous quarter. Supplies were still ample, however, to fill orders of almost any usual size.

Paraffin—The week was not a particularly brisk one for manufacturers, it was reported, although the rate of demand held fairly steady at the level attained earlier. At current rates of production, the consumer was able to obtain his requirements without difficulty. The material was available at the prices that were in effect earlier.

Miscellaneous

Crude Oil—A slight decrease of 59,000 barrels daily in crude runs to stills for the industry during the week ended October 4 was reported by the American Petroleum Institute. The figure for that week was 6,928,000 barrels daily.

World crude production rose 2 percent during February, 1952, from the previous month, it was stated in a Bureau of Mines report, when it averaged 12,042,000 barrels daily. United States output for the same month was up 2.4 percent with a daily average of 6,367,000 barrels. A sharp increase in world crude petroleum stocks was noted as the daily average rate went to 195,000 barrels in February, from 28,000 barrels in January.

Fuel Oil—Prices were raised for No. 1 fuel oil in the midwest by ⅛c. per gallon. The increase was said to have been caused by a spell of colder weather in the region that brought about an increased demand. With inventories high for all grades of fuel oil, consumers encountered no difficulty in ordering their winter fuel needs. Fuel oil prices, with the exception of the one mentioned above, remained unchanged.

Natural Gas—Sales of natural gas rose 4.4 percent in August, it was reported by the American Gas Association. The increase continued a trend of the past twelve months, during which the gain was revealed as 8.8 percent.

Los Angeles Petroleum Market

Little change was noted in the solvent and diluent market for the period under review. Demand remained steady with no oversupply position reported. Price listings were unchanged as follows:—Lacquer diluent quoted 16.7c.-20.7c. per gallon, tankwagon, ex-tax, f.o.b. Los Angeles basin area; cleaning solvents, including stoddard, quoted 15.7c. to 19.7c. per

For Late Market Developments, See Page 4

Chemical Marketing Given Status of Division by ACS

Creation of a division of chemical marketing and economics by the American Chemical Society has been announced by Dr. Edgar C. Britton, president of the society and director of the organic research laboratory of the Dow Chemical Company, Midland, Mich. Frederic A. Soderberg of the General Dyestuff Corporation, New York, has been elected first chairman of the division, Dr. Britton said.

Formation of the new division reflects the wide interest among the society's members in the development of industrial chemicals from test tube to tankcar stage, and their increasing appreciation of the importance of considering the economic aspects in attacking research and development problems, according to Mr. Soderberg, who is manager of General Dyestuff's industrial division.

Professors and college students are particularly invited to participate in the activities of the division, with the hope that formal courses in the field of chemical marketing can be established more widely in the colleges and universities of the country, Mr. Soderberg emphasized. Organized in the fall of 1947 as a subdivision of the society's division of industrial and engineering chemistry, the chemical marketing group has been provisionally authorized as a full-fledged division by the society's national council. Carl A. Setterstrom, sales manager for textile fibers of the Carbide & Carbon Chemicals Company, New York, is chairman-elect, and Dr. H. G. Johnson of the Monsanto Chemical Company, St. Louis, Mo., is secretary-treasurer.

PAD Appoints Bateman Materials Division Head

Harris Bateman has been appointed director of the materials division of the Petroleum Administration for Defense, succeeding Richard M. Morrison, who has returned to private industry. Mr. Bateman joined PAD in mid-August as deputy director of the materials division. Mr. Morrison had been director since October of last year, and prior to that had been deputy director.

Mr. Bateman was chief engineer for the Cities Service Oil Company, Bartlesville, Okla., at the time he joined PAD. He became associated with Cities Service in 1927 and advanced through various purchasing department posts in Bartlesville; Lake Charles, La.; East Chicago, Ind., and New York.

Sun Oil Names Anderson

Appointment of Arthur R. Anderson as acting district manager of Sun Oil Company's Williamsport, Pa., sales district has been announced. Mr. Anderson, formerly branch manager at Lancaster, Pa., succeeds the late Lewis L. Stokes.

Mr. Anderson was branch sales manager at Lewistown, Pa., from 1934 to 1949 when he became a regional land department representative in Philadelphia. In 1950 he was named commercial and motor products manager, prior to moving to Lancaster as branch sales manager.

Ind. Standard Ups Stockdale

Thomas E. Stockdale has been named manager of the new refinery which Standard Oil Company (Indiana) plans to build at Mandan, N. D. Mr. Stockdale, who had been general superintendent at the company's Wood River, Ill., refinery, will be succeeded by Ford H. Blunck, who had been manager of the projects, capital expenditures and miscellaneous contracts division in the general office manufacturing department at Chicago.

NPC Adds A. W. Scott

A. W. Scott, newly-elected president of the National Petroleum Association, has been named to membership on the National Petroleum Council. Mr. Scott, who is president of the Wolf's Head Refining Company, Oil City, Pa., succeeds Earle M. Craig, retiring president of the association.

Jefferies Changes Name

Jefferies Engineering Company, Westfield, N. J., has changed its name to Engineering Corporation of America, it has been announced by Fitch B. Jefferies, president.

U.S. Steel Division to Supply Material For Texas to California Pipe Line

The Consolidated Western Steel Division of the United States Steel Company, has announced that it has completed firm agreements with Ebasco Services, Inc., New York, agents for the West Coast Pipe Line Company, to supply about 40 percent of the 210,000 tons of steel pipe required for the 960 mile crude oil pipe line to run from Wink, Tex., to Norwalk, Calif.

Nat'l Research Foundation Offers Three Grants for Basic Studies

The scientific trust of the National Research Foundation, Cambridge, Mass., has announced three grants for the support of basic research.

Northwestern University receives $4,000 for photochemical studies in the far ultraviolet and Schumann regions. Rensselaer Polytechnic Institute is the recipient of $3,480 for studies in the high frequency resonances in ferrites, and Rijks University, Leiden, Holland, receives $3,125 for investigation of the reactions of Halides or oxides with metals.

Trade Briefs

E. J. Valencia and Lloyd L. Allen have been elected to the board of directors of Canadian Bishop Oil, Ltd.

Esso Standard Oil Company has started construction of a 1,500,000 barrel oil storage terminal in Paulsboro, N. J.

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200	190/195	10 max.	Brown-Black	Nil	Nil
500	190/195	10 max.	2 to 2½	Nil	Nil
700	190/195	5 max.	2 to 2½	Nil	Nil
1035	195/200	2 max.	2 to 2½	Nil	Nil
* 23	180 min.	4 to 6	4 to 5	20-25	55-65
* 36	180 min.	5 to 7	5 to 6	30-35	75-85

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Gair Advances Scribner, Names Personnel Mgrs.

Robert Gair Company, New York, has announced the appointment of Russell D. Scribner as division manager at the Thames River (New London, Conn.) mill and box shop, as well as four appointments to personnel managers' posts at its various divisions.

John H. Scholl has been named to the Haverhill, Mass., boxboard division and Stuart R. Bagni has been appointed to the Eastern States Carton Division in Brooklyn, N. Y. Charles A. Stark has been named to the Boston box division at Cambridge, Mass., and Arthur J. Beinlein has been appointed to the Tonowanda, N. Y., boxboards division.

Rucker Names 3 Engineers

The Rucker Company, Oakland, Calif., has announced the appointments of R. R. Harrison as assistant chief engineer and Bruce MacDonald and B. E. McNay as senior project engineers.

Mr. Harrison was previously senior design engineer in charge of design and construction of the Convair Guided Missile Division's centrifuge laboratory at Pomona, Calif. Mr. MacDonald served with the Air Force guided missiles branch, Wright Air Development Center, Dayton, Ohio, before joining Rucker. Mr. McNay's experience includes chemical plant and equipment design, process development, research, development and plant management.

Beckman Names Steinkamp

William H. Steinkamp has been appointed vice-president and general sales manager of Beckman Instruments, Inc., South Pasadena, Calif. Mr. Steinkamp joins Beckman after twenty-two years' association with the Brown Instruments Division of Minneapolis Honeywell Regulator Company, which he served last as general sales manager in Philadelphia. He will make his headquarters at the South Pasadena plant.

Gum Inhibitors Data Offered

The use of gum inhibitors to effectively delay gasoline deterioration during storage is discussed in a new bulletin published by Tennessee Eastman Company. The bulletin contains information on the causes of gum formation, the use and handling of inhibitors and discusses those factors which must be considered when a selection of an inhibitor is made for a specific gasoline. Copies of the bulletin are available upon request to the chemical sales division, Tennessee Eastman Company, Kingsport.

Tomasson Quits Armstrong Glass and Closure Division

V. A. Tomasson, a member of the New York district office of the Armstrong Cork Company's glass and closure division has retired after forty-nine years of employment in the glass industry. He had spent forty-one years as a sales representative in the New York city market and fourteen years with the Armstrong New York office. Mr. Tomasson began employment with the Armstrong organization in 1938 when Armstrong acquired the Hart Glass Manufacturing Company. He joined Hart in 1923 after employment by two other glass companies and was serving as New York district manager for Hart when the company was acquired by Armstrong.

Goodrich Elects Kelly

B. F. Goodrich Company, Akron, Ohio, has elected Arthur Kelly vice-president in charge of manufacturing, effective January 31. Thornton G. Collyer, vice-president since 1928, will retire then after more than thirty-eight years in the rubber industry.

Trade Briefs

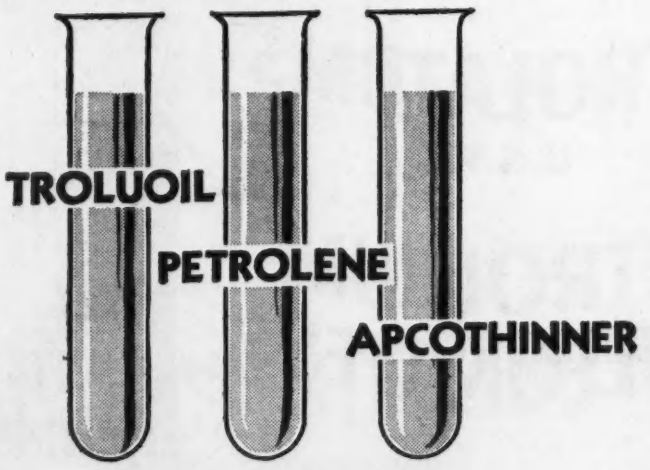
Dr. James B. Herring has been elected to the board of directors of Pacific Oil & Gas Development Corporation.

P. W. Thirtle, vice-president of Sinclair Oil Corporation, has been elected a director of Richfield Oil Corporation.

Gregg B. Burkhalter has been named chief of the petroleum branch of the rubber, chemicals, drugs and fuels division of OPS.

Joseph A. Kelley, vice-president of Cities Service Oil Company, has been named chairman of the petroleum division of the 1952 fund raising drive of the Travelers Aid Society of New York.

UNIFORMITY



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Philippines to Buy Fertilizer Under MSA Authorizations

The government of the Philippines has been granted authorizations by the Mutual Security Agency to make purchases of fertilizer totaling $3,671,000 for next year's delivery.

The first authorization, to be made under PA-92-230-00-390-3401, is for $2,383,000 of nitrogen carrying fertilizer. The second authorization will be made under PA-92-235-00-390-3402, and is for $1,288,000 of 6-16-0 fertilizer, or 8-8-8 fertilizer. The contracting period on both of these authorizations extends to February 28, 1953.

MSA said that it is expected that purchases will be made by the Philippine Council for United States Aid, through the regular procedures established by that agency to buy MSA-financed commodities. In that case invitations will probably be issued and Philippine importing firms or representatives in the Philippines of foreign firms will be eligible to bid.

The source countries on these authorizations include:—United States, Japan, Belgium, France, Germany, Austria, Canada, United Kingdom, and the Netherlands.

Barfair Labs Offering New Fungicides for Test

A new group of solvent soluble, copper-based, organic fungicides is now available for industrial testing from Barfair Laboratories, Inc., City Island, N. Y. The products are said to range from an easily soluble copper pentachlorphenate to a solvent soluble but water dispersible copper acetate.

The technic used in preparing these compounds involves the formation of complexes with selected nitrogen containing organic compounds and is the subject of a patent application by Barfair. Five compounds are available for testing. They are:—"Barfair CPCP," a soluble, activated, copper pentachlorphenate; "Barfair CPHB," a companion product based on copper parahydroxybenzoate; "Barfair CDCB," copper 3,4 dichlorbenzoate based homologue; "Barfair CMD," a soluble, coprecipitated, copper methylene bis disalicylate/copper pentachlorphenate in which 90 percent of the ring is supplied by methylene bis disalicylic acid, and "Barfair CAA," a solvent soluble, water dispersible, copper acetate.

Bemis Ups Hoeppner

A. D. Hoeppner, formerly manager of the Bemis Bro. Bag Company's plastic bag department in Minneapolis, Minn., has been appointed supervisor of plastic bag sales at the company's general offices in St. Louis, Mo. Mr. Hoeppner's duties will be to supervise and promote Bemis' production, sale and distribution of plastic bags. He joined the Bemis organization in 1935 as a member of the sales force of the Minneapolis sales division and in 1948 was named manager of the plastic bag department. H. E. Illich will fill the position left open by Mr. Hoeppner's transfer.

Peninsular Grinding Appoints

Dr. Samuel B. Kistler has been appointed research associate of the Peninsular Grinding Wheel Company, Detroit, Mich. Dr. Kistler recently resigned as director of research for the Norton Company to accept the deanship of the University of Utah college of engineering. His career has included teaching and association with the Standard Oil Company of California and E. I. duPont de Nemours & Co.

Minerals Exploration in Saudi Arabia To Be Backed by Geological Survey

Assistance in developing a minerals exploration program in Saudi Arabia along a planned extension of a railway line from Riyadh to Jidda on the Red Sea will be given by Richard C. Bogue and Gus H. Goudarzi, Geological Survey technicians, who are now en route to the Middle East, Acting Secretary of the Interior Vernon D. Northrop has announced.

On a Point Four assignment, the two geologists will make a careful reconnaissance of the country in the vicinity of the rail route, which is to be the final phase of a transcontinental railway. They will assess mineralized areas, any existing mining activity, equipment, facilities, and availability of local technical manpower. They will co-operate in determining which possible mineral commodities should receive first consideration for exploration, development, or utilization, Mr. Northrop said.

Foam Extinguisher Demonstrated

A new alcohol-resistant foam, said to be effective against fires in all flammable liquids, was shown for the first time this month to eighty military and civilian fire-prevention engineers by the Pyrene Manufacturing Company, Newark, N. J. The new foam was used to put out fires in ethanol and acetone and also in oil in a bank of transformers.

Fertiliser Society, of London, to Hear Talk on Pyrites at Nov. 19 Meeting

The Fertiliser Society, London, will hold its next meeting November 19 in the lecture hall of the Royal Society of Tropical Medicine and Hygiene, Manson House, London. A paper will be presented by E. G. Lawford and the staff of the Rio Tinto Company, Ltd., entitled, "The Mining and Preparation of Pyrites for Acid Making."

Trade Briefs

William A. Clark has been appointed general manager of the foreign producing department of the Texs Company.

Socony-Vacuum Oil Company has launched the S.S. Waneta, largest addition to its deep sea fleet.

Robert K. Byars has been named assistant advertising manager of Standard Oil Company (Indiana).

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Coal Chemicals

There were no price changes which affected the price index of this market last week. There was a small amount of price activity on the outside of ranges formerly quoted by producers in a few markets.

Nor were there any particular changes in the levels of demand or the availability of coal chemicals last week. The light oils continued to move well. Benzol was balanced, with respect to supply and demand. Toluol was still in tight supply. Government directives for nitration material and high requirements for aviation gasoline were expected to keep the market tight. However, the situation was not considered to be critical. Producers felt that xylol would remain in balance for the rest of the year.

Producers continued to report increased activity in the tar acids. Cresols and cresylic acid noticed the improvement in demand first. Lately, there has been some pickup noticed for natural phenol.

Crude naphthalene has not been moving at the same pace it was going at for so long. However, the reductions in demand have not caused any pressures through the buildup of inventories. Refined naphthalene has been moving well in recent weeks. Importers found hot-pressed naphthalene a bit slow, prices were in a narrow competitive range. Creosote was unchanged. Supplies were adequate. Pyridin remained in tight supply.

Phthalic anhydride continued to show some improvement. Plasticizers and alkyd resins have increased the call for phthalic. Styrene was enjoying a good demand. Resorcinol was free. Monochlorobenzene has suffered some loss of demand from the shutdowns in DDT production.

The American Iron and Steel Institute announced that actual production during the week ending October 11 was 2,215,000 tons, which set a new record for a week's production. Operations for the week ending October 18 were scheduled to be 105.8 percent of theoretical capacity. This was equivalent to 2,197,000 tons, compared to the previous week's record, when operations were at 106.6 percent of capacity.

Basic Products

Benzol — The market for this aromatic continued to show a steady demand. Producers have been moving all of their production, and expected the market to keep its status quo. It was felt that the demand would be balanced with the supply early next year. Suppliers looked for a good, steady demand, but they did not anticipate any critical supply situations, such as were experienced last year.

Total production of benzol, except motor grade, was 11,167,307 gallons in July, compared with 10,743,444 gallons produced in June, according to a Tariff Commission release.

The commission reported that cokeoven operators also produced 68,278 gallons of motor grade material in July, against 43,051 gallons in June.

A breakdown of the other grades of benzol showed that cokeoven operators produced 3,699,016 gallons in July, and 3,878,984 gallons in June. Tar distillers' output in July was 4,552,542 gallons, compared with 5,083,685 gallons in June. Petroleum operators produced 2,915,749 gallons in July and 1,780,775 gallons in June.

Creosote — There has been relatively little change in this market, prices have remained steady. Demand has held to the levels established soon after supply problems were relieved following the steel strike. Producers did not anticipate much change in this market in the immediate future.

The Tariff Commission report showed that cokeoven operators and tar distillers produced 6,509,398 gallons of creosote in July, as against 7,077,027 gallons in June.

Tar distillers produced 5,989,546 gallons in July, and 6,644,490 gallons in June. While cokeoven operators produced 519,852 gallons during July, compared to 432,537 gallons in June.

Cresols — Continued improvement in this market has been noticed by some producers. Although the changes in the amount of action for the cresols has not resulted in a sudden surge in buying, some producers have said that it was better the slow, gradual way. A gradual steady improvement does not cause panic buying, and allows more time for planning operations, it was added. The price schedules remained steady last week. There were no changes anticipated in the established levels.

Tariff Commission figures indicated that output of meta-para, from all sources, was 815,906 pounds in July, and 591,522 pounds in June. The July figure for the mixed ortho-meta-para isomers was not available, however, the total output of these cresols was 432,360 pounds in June.

Cresylic Acid—Producers have indicated in recent weeks that the market for this tar acid was demonstrating greater activity than was present during the slow summer months. Some suppliers felt that recent price reductions in this market have stirred a little more buying interest than there had been.

There was moderate activity in the market for imported cresylic acid, although some importers reported that ADF acid was a little dull largely because of the fact that most consumers were looking for the 85-cent material. However, only occasional lots were obtained by importers that could be sold at a profitable margin while holding to 85c. It was felt that some price adjustment was to be expected in the future. One source reported that it had been able to move some lower grade material in addition to the better volume of standard ADF acid which had already been reported.

Total output of refined cresylic acid was 2,758,303 pounds in July, compared to 2,163,027 pounds in June, according to the Tariff Commission.

Naphthalene—Refined material continued to move well. Producers reported that domestic crude has not been moving as fast as they would like to see it move. However, there has been no pressure of inventories.

Continued weakness was seen in the market for imported 78-degree material last week. Quotations for hot-pressed material were at a straight level of 4¼c. per pound, eliminating the outside of the range.

Phenol—Producers said that there has been some indication that the market for natural phenol was picking up a bit. Phenolic resins and adhesives have been showing greater activity. The general level of business was felt to be showing some improvement. Several producers stated that they were definitely encouraged by the outlook. Prices in this market have remained firm. Supplies were adequate for the current demand.

Production of all grades of phenol during July was 24,865,578 pounds compared to 24,209,720 pounds in June, according to Tariff Commission information.

Pyridin—There has been no significant change in the market for the 2-degree material. Demand has been sustained at a high level. Supply continued to be insufficient to meet that demand. It was anticipated that the great number of end uses for 2 degree pyridin would keep the market in tight supply for quite a while longer.

Toluol — The market for this solvent continued to be in tight supply. Large quantity government requirements for nitration and aviation gasoline were dominant factors in the short supply situation. Government directives for substantial amounts of coaltar source material were definitely expected to keep toluol in tight supply for October and November. Even though current directives were

Coal Chemicals

Estimates of total chemical recovery cokeoven operations in the week ended October 18, indicate the following output of chemicals from that source:—

Ammonia liquid, NH_3	lbs.	1,021,533
Ammonium sulphate	lbs.	36,809,441
Benzol	gals.	3,653,367
Coaltar	gals.	16,417,943
Creosote oil	gals.	680,383
Naphthenate, crude	lbs.	2,617,996
Pyridin, refined	lbs.	31,061
Toluol	gals.	715,881
Xylol	gals.	192,382

Market Trends

Prices Advanced
None

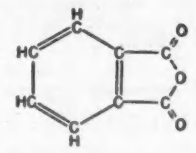
Prices Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 19, 1951
113.50	113.50	113.58	111.97

(*For Current Prices see Page 9*)

For Late Market Developments, See Page 4



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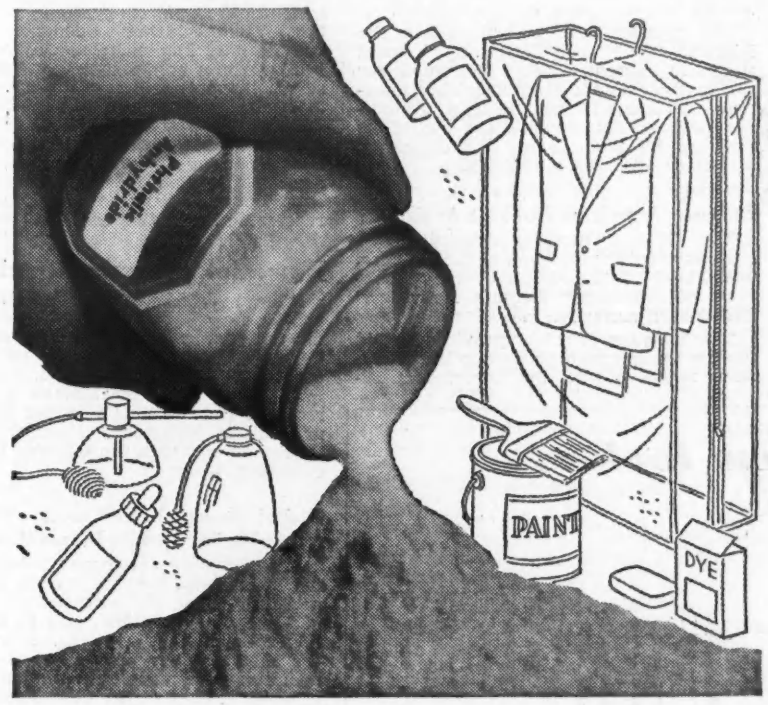

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only for the next few months, some producers felt that little improvement could be anticipated in the supply position during the early part of next year. However, it was stressed that a critical supply situation was not expected. In addition to defense uses of toluol, industrial demand for the solvent has increased.

According to the Tariff Commission total production of toluol, from all sources, was 4,229,956 gallons in July, while the June output was 5,763,909 gallons. Cokeoven operators accounted for 903,112 gallons of the July total, and 877,524 gallons of the June output.

Xylol—The market for this solvent was just about balanced last week. Producers anticipated that there would not be too much change in the supply position of xylol for the rest of the year.

Intermediates

Acetanilide—The Tariff Commission reported that production of acetanilide was 179,288 pounds in July, compared with 224,898 pounds in June.

The Tariff Commission reported that production of acetanilide was 179,288 pounds in July, compared with 224,898 pounds in June.

Anilin—Total anilin output in July was 5,745,969 pounds, compared with 6,959,838 pounds in June, according to the Tariff Commission.

Ditertiarybutylmetacresol—Demand for this material was down from former levels, it was said. The number of calls for this intermediate from finishes, as an end product, have decreased somewhat. Supplies were ample for consumer needs. There were no price changes recently in this market.

Ditertiarybutylparacresol — This intermediate was moving pretty well. There have been no particular changes in demand levels, and none were momentarily expected. Prices have remained at their previously established levels. Supplies were adequate to take care of the immediate needs of consumers.

Monochlorobenzene — There has not been much activity in this market. It was said that shutdowns in DDT production have caused a reduction in demand for this chlorinated benzene. There were ample supplies to take care of the current levels of demand. Prices have remained at their old levels.

Tariff Commission figures indicated that July output of monochlorobenzene was 22,198,318 pounds, compared with June production of 23,441,367 pounds.

Monotertiarybutylmetacresol—The market for this intermediate has also seen some reductions in demand from the direction of finishes, as an end product. In addition, there was some loss of demand for the germicidal use of MTBMC inasmuch as the market for thymol was slow, it was stated.

Phthalic Anhydride — Producers continued to report that this market was showing some improvement. There has been an increase in demand from both plasticizers and alkyd resins, it was said. Supplies were ample to take care of the current levels of demand.

The Tariff Commission report indicated that July output of phthalic was 18,955,354 pounds, compared to June production of 19,225,439 pounds.

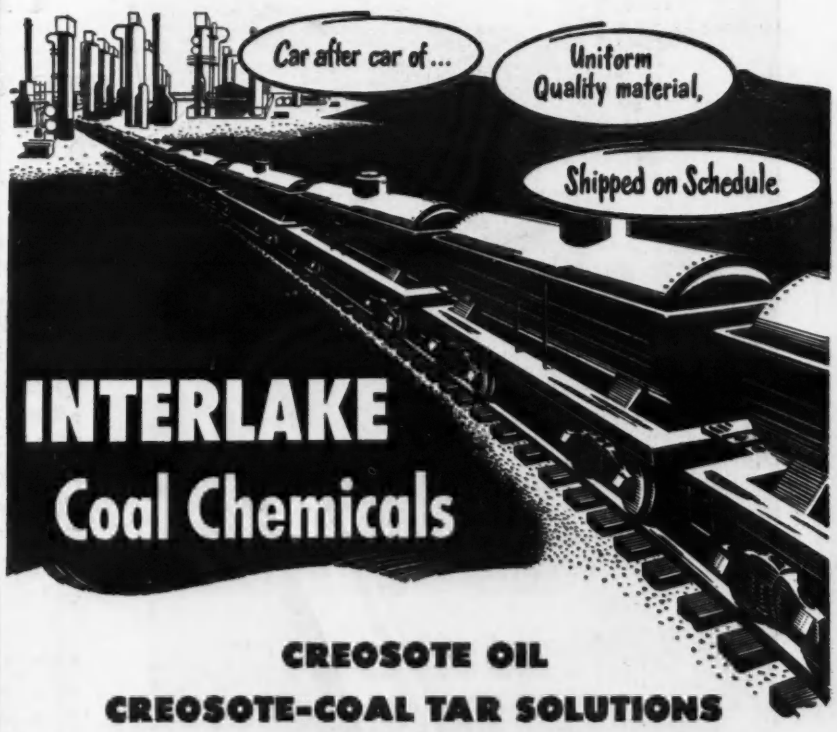
Quinolin — Another source reduced the price of this tar base last week, thereby eliminating the price range established the previous week. The single competitive price currently quoted was 50c. per pound in tankcars 50¾c. per pound in carlots, and 51¾c. per pound in less than carlots.

Resorcinol—There has been no apparent change in this market. One source stated that this material was in free supply. Prices have held to old levels. There has been no indication that resorcinol glues were showing any signs of picking up.

Solvent Naphtha—The most recent Bureau of Mines report showed that cokeoven production of crude heavy solvent in July was 109,763 gallons, while output of refined light solvent was 10,000 gallons. In comparison, June production of crude heavy was 83,603 gallons, and July, 1951, output was 548,200 gallons. The output of refined light solvent by cokeoven operators in June was 6,406 gallons, and 17,000 in July of last year.

Styrene—The market for the monomer has shown a pickup in the past month or so. Demand has been reported to have shown improvement all along the line. One source stated that it was shipping quite a bit of material, however, there were no indications that any shortages were forthcoming. It was felt that the market would probably ride along in a nice balance between supply and demand.

The Tariff Commission production report showed that government and privately owned plants combined produced 49,393,763 pounds in July, as against 52,938,690 pounds in June.



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Red Acetate Dye Addition Reported by Tenn. Eastman

A new, bright red acetate dye, "Eastone Brilliant Fast Red 2B-GLF," will be offered to acetate textile finishers by Tennessee Eastman Company, Kingsport, Tenn., within the next few weeks. The dye is said by the producer to possess a combination of fastness properties and dyeing characteristics unequaled by any acetate red dye now on the market.

The product will be included in the Eastman "GLF" or "Estron Dye" series which is currently being promoted for use in those applications requiring maximum resistance to gas and light. Tennessee Eastman recommends the use of its new dye for plain dyeing and discharge, screen or application printing.

Defense Activities Booklet Available

The General Services Administration has announced publication of the October, 1952-March, 1953, edition of the "Handbook of Emergency Defense Activities," issued semi-annually.

The 120-page directory provides an aid for the businessman or anyone having official relations with the government regarding defense activities. The handbook may be purchased for 30 cents a copy from the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

Pennsalt Names Blanton District Sales Manager

O. Harry Blanton has been appointed southeastern district sales manager for agricultural chemicals by the Pennsylvania Salt Manufacturing Company, Philadelphia. Mr. Blanton, who will make his headquarters at Montgomery, Ala., assumes the duties formerly performed by J. Drake Watson, who is now on active duty with the army in Korea. The new district sales manager has been in agricultural technical service and sales work since leaving active duty in the last war and joined Pennsalt as a technical sales representative in this field in June 1951.

Pitts. Coke Names Agent

Duncan J. MacLennan has been appointed New England sales representative for the plasticizer division of Pittsburgh Coke & Chemical Company, with headquarters at 79 Knollwood road, West Hartford, Conn. Mr. MacLennan was sales research and planning manager for Whitney Chain Company, Hartford, Conn. Earlier he was with the Godfrey L. Cabot Company, Boston.

Nickel Map of Lake County, Minn., Available for Public Inspection

A preliminary aeromagnetic map showing by contours the results of an aeromagnetic survey of the potential nickel area of Lake County, Minn., has been placed in files open to the public, Secretary of the Interior Oscar L. Chapman has announced. The mapping was accomplished by geophysicists of the Geological Survey and shows the gabbro contact along which the nickeliferous deposits occur, together with the eastward extension of the Vermilion Iron district and the western end of the Gunflint Range in Cook County.

The map is not yet available for sale or public distribution, but is being prepared for publication as soon as possible. Copies may be examined at the ofice of the Minnesota Geological Survey, Pillsbury Hall, University of Minnesota, Minneapolis, Minn.; the office of the Bureau of Mines, Federal Building, Duluth, Minn.; the office of the Division of Lands and Minerals, Hibbing, Minn., and the Geological Survey, Room 1033 (Library), General Services Administration Building, Washington, D. C.

Steel Shipping Barrels Output In August Above That of July

August production of steel barrels and drums, on an average working-day basis, was 14 percent above that of July and under the figure for August, 1951, by 27 percent, according to the Bureau of Census. During the month the industry turned out 1,963,642 heavy-type steel barrels and drums, 799,511 light-type steel barrels and drums and 5,189,415 steel shipping packages, kegs and pails. This compares with 1,628,502 heavy-type steel barrels and drums, 788,079 light-type steel barrels and drums and 4,400,954 steel shipping packages, kegs and pails in July.

Bleaching, Stripping Agent Bulletin

A technical bulletin describing a new bleaching and stripping agent called "Clorpactin CXW" has been published by the Guardian Chemical Corporation, New York. The bulletin describes how a 1 to 1½ percent solution of the agent strips colors with a minimum loss of tensile strength, illustrates comparative tests with sodium hypochlorite and calcium hypochlorite, and points out that even over-dosing with the new agent under normal conditions of use will not result in tenderizing of the fabric. Complete instructions for use as a bleaching or stripping agent are included, as well as suggestions for use in treating process waters or in decreasing the B.O.D. of dyehouse wastes. The bulletin may be obtained by request on a company letterhead to Guardian at 10-15 43rd avenue, Long Island City, N. Y.

Trade Briefs

Henry Hansjergen has been appointed chief of the major projects control branch of the Defense Electric Power Administration.

Dr. Emil Heuser was honored recently by the German Association of Pulp and Paper Chemists and Engineers on his seventieth birthday with presentation of a commemorative medal and special tribute in the association's publication, *Das Papier.*

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UNITED STATES STEEL

IMC Elects Paranagua Head of Central Group

The International Materials Conference announced last week that Octavio Paranagua, of Brazil, has been elected as the new chairman of the central group. His term is for six months. He succeeds Jean Vacher-Desvernais, of France.

The two vice-chairmen also elected are Francois Corbasson, head of the Organization for European Economic Cooperation Mission of the IMC, and James F. King, United States representative to the central group. The outgoing vice-chairmen are John H. English of Canada, and Dr. Alberto Lleras of the Organization of American States.

The central group is composed of representatives of eight of the largest producing and consuming countries of the world and two international organizations—OAS and OEEC. It is responsible for the coordination of activities of the conference as a whole.

Goodrich Names Nantz Calvert City Plant Mgr.

B. F. Goodrich Chemical Company, Cleveland, Ohio, has appointed T. B. Nantz manager of its new $5,000,000 vinyl plastic monomer plant now in its final construction stages at Calvert City, Ky. The move is effective November 1. Anton Vittone, jr., will take over Mr. Nantz' former duties as plant manager at the Institute, W. Va., GR-S rubber plant, operated for the government by Goodrich. Mr. Vittone is now plant engineer at Institute.

Mr. Nantz went to work in B. F. Goodrich laboratories as a chemist in 1937. He served as production manager of Goodrich Chemical's "Hycar" nitrile rubber plant in Louisville, Ky., from 1947 to 1950, when he was sent to reactivate the government-owned plant at Institute. Mr. Vittone has been with Goodrich since 1942, became production manager at Institute in 1950, and has been plant engineer there since last year.

Organic Intermediates, New Dyestuffs Agency, Formed

A new company, Organic Intermediates, has been formed to serve as a clearing house for the sale of dyestuff intermediates manufactured by the smaller dyestuff concerns and to act as a sales agent for chlorophyll and derivatives manufactured by the Chlorophyll Corporation of America. Offices of the new company are at 120 Central avenue, Clark Township (Rahway), N. J.

Dyestuff products offered by the new company represent the output of about thirty manufacturers, with some of the materials on the market for the first time. A list of the intermediates is available on request to the company.

Multi-Metal Publishes Catalog

Multi-Metal Wire Cloth Company, New York, has published a 126-page catalog detailing its line of wire cloth, filter cloth and fabricated products. The publication contains data for designing process units which contain the above products and includes a research report conducted at Columbia University on the flow characteristics and particle retentivity of metallic fiber cloths.

Fred Haggerson Dies

—Continued from page 7

that has been in a large measure recognized as responsible for the growth of the corporation.

Andrew Alvarez, general manager of the Ciba State Export Corporation, Summit, N. J., a division of the Ciba Pharmaceutical Corporation, died October 13 in Norristown, N. J.

A. C. Bernsteen, president of the Consolidated Paint Color Company, died October 15 in Cleveland, Ohio. He was sixty-seven years old. Mr. Bernsteen founded the company eighteen years ago and remained its head until his death.

Edwin C. Fritz, vice-president of the National Solvent Corporation, Cleveland, Ohio, died October 13. He was sixty years old.

Herman Geller, organizer and retired president of the Allied Textile Printers, Paterson, N. J., and the Perennial Print Works, in Rhode Island, died October 12 in Paterson.

Benjamin F. Harris, former president of the United States Steel Corporation's National Tube Company, Oil Well Supply Company and Tubular Alloy Steel Corporation, died October 16 in Pittsburgh, Pa. He was sixty-six years old. Mr. Harris had been in the United States Steel organization for more than thirty years until his retirement in 1943.

Donald W. Lycan, vice-president of the Signal Oil & Gas Company, died in Rome recently, according to messages received in this country last week.

Saul Optner, president of the Plastic Service Corporation, New York, died in that city October 13. He was thirty-nine years old. Formerly vice-president and general manager of Ranger-Tennere, Inc., he was credited with having designed domes to eliminate television antennae vibration.

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Drugs and Fine Chemicals

Increased production and intensified competition for available business has resulted in a further price cut in bulk isoniazid. The price of this drug was reduced $2 per kilo last week. This was the latest in a series of price cuts which have characterized this market during the past several months. There was considerable favorable publicity in the lay press when it was revealed earlier this year that tubercular patients had shown marked improvment after experimental treatments with the drug. As often happens in such cases, the public clamor for isoniazid had the effect of spurring its production and several established drug manufacturers entered the field. Currently, production exceeds demand. However, this situation may change if isoniazid fulfills earlier claims as to its potentialities in the treatment of various diseases.

Menthol continued in the doldrums with buying restricted mostly to filling current needs. Brazilian menthol was down 15c. per pound while the Japanese material continued firm. Castor beans were acknowledged to be firming somewhat although quotations remained nominal with buyers holding back. Blackstrap molasses, feed grade, was reduced ¼ cent per gallon at New Orleans and ½ cent at New York.

Among the commodities, argols showed considerable weakness. This was reflected last month in the reductions in the tartrates and tartaric acid. Currently, buying was very quiet and manufacturers utilizing argols in the production of finished tartrates were reported to have comfortable inventories of argols on hand.

Trading in glycerin continued quite brisk. Demand for refined glycerin was said to be going quite well. Consumption by alkyd resin producers has been sizable while the defense program has been consuming additional quantities of refined glycerin both directly and indirectly. In the former case, the production of explosives and rocket fuel was said to be taking increasing quantities of glycerin off the civilian market. Crude glycerin was growing tighter. Prices asked were out of line with refined schedules with the result that there was limited buying. Argentine crude has been coming into the market with some crude due to be landed here next week, according to reports.

Trade in fine chemicals continued spotty but preparations were under way for the coming cold weather and producers were generally optimistic. Demand for lacquer solvents was picking up as well as that for certain specially denatured grades of alcohol.

Argols—Stocks of imported argols were said to be substantial with little buying at present. This situation which has existed for the past several weeks at least led to an earlier cut in the prices of finished items made from these crude materials. The reference is to the price reductions in tartaric acid, cream of tartar and Rochelle salts last month. Argols were currently priced at $26 per 100 kilos although there was said to be some material offered at lower quotations.

Castor Oil—Castor beans were somewhat firmer with offerings nominally quoted at $175 per long ton, f.o.b., Brazil. Arrivals of beans at Philadelphia and New York ports last week amounted to 684,600 pounds, as compared with 473,550 the previous week, and 1,365,950 pounds during the corresponding week of last year. Imports of castor oil at these ports last week totaled 1,232,000 pounds, as against the 991,600 pounds brought in during the previous week and the 300,000 pounds imported during the corresponding week of 1951. Total imports of beans so far this year at Philadelphia and New York amounted to 96,081,650 pounds, compared with 123,465,700 pounds during the corresponding period of 1951 Total oil imports at these ports so far this year amounted to 58,924,550 pounds, as against the 44,519,929 pounds brought in during the same period of last year.

Ethyleneglycol—Demand for this material was described as fair. The peak of the antifreeze packaging season was reportedly past although the cold winter predicted was heartening to glycol producers. Next month, accordingly, may see an increased demand for ethyleneglycol from antifreeze formulators.

Although the production of acrylonitrile has been competing with glycol production for ethylene oxide, the chemical raw material used in the manufacture of these two compounds, it was reported that in the not too distant future, production of the former will utilize less oxide, freeing additional quantities for processing into ethyleneglycol.

Supplies of ethyleneglycol were said to be more than adequate for current demand. Expansion of existing facilities for its production is under way as a result of the expansion goal st some time ago by the Defense Production Administration. The plastics industries were expected to step up consumption of the glycol particularly in view of the demands of the burgeoning defense program.

Production of ethyleneglycol during July, 1952, totaled 65,054,754 pounds compared to the 64,918,629 pounds turned out in June, according to the Tariff Commission

Gelatin—Total gelatin production during August, 1952, amounted to 3,195,745 pounds compared with the 2948,100 pounds produced during July this year and the 3,-074,178 pounds turned out in August of last year.

Classified by type, edible gelatin production aggregated 2,274,432 pounds during August, 1952; 2,103,537 pounds in July and 2,474,516 pounds in August, 1951. Production of technical gelatin during August totaled 197,462 pounds, 211,502 pounds in July, 1952, and 179,697 pounds during August last year. Production figures for pharmaceutical and photographic grades were not given

Total shipments of gelatin during August, 1952, aggregated 3,745,155 pounds compared with 3,612,498 pounds in July this year and 3,254,193 pounds during August, 1951. Classified by type, edible gelatin shipments totaled 2,795,898 pounds during August, 1952; 2,465,012 pounds in July this year and 2,075,688 pounds during August last year. Shipments of technical grade totaled 215,039 pounds in August, 1952, and 240,359 pounds during July this year. Figures for pharmaceutical and photographic grades were not given

Stocks of gelatin at the end of August totaled 9,222,472 pounds compared with 9,771,882 pounds at the end of July and 9,781,052 pounds at the end of August last year.

Classified by type, stocks at the end of August this year included 4,192,133 pounds edible, 1,189,850 pounds technical, 716,906 pounds pharmaceutical and 3,123,-578 pounds photo grade. In comparison, stocks at the end of July, 1952, were comprised of 4,713,604 pounds edible material, 1,207,427 pounds technical, 750,-899 pounds pharmaceutical grade and 3,099,952 pounds photographic gelatin.

Glycerin—Demand for refined grades of glycerin was reportedly sustained at good levels with supplies about adequate although tending to be tight in some quarters. Most refined producers report that they are sold up well into next month. Refined glycerin inventories continued to be somewhat below levels considered satisfactory. Prices were holding firm despite the fact that domestic crude was being offered at prices which were too high in relation to current refined glycerin schedules.

The loss in glycerin inventories as a result of the prolonged shutdown of synthetic glycerin producing facilities and vacation layoffs in the soap industry this past Summer has amounted to about 5,000,000 pounds. With consumption on the upswing, it has appeared that it would take some time for production to close up the gap.

One of the largest consumers of glycerin, the manufacturers of alkyd resins, has been quite active in buying refined material during recent weeks. Production of cellophane, industrial dynamites, cigarettes and a host of drug products using glycerin has been on the rise. With the defense program slated to approach its

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

None

Prices Reduced

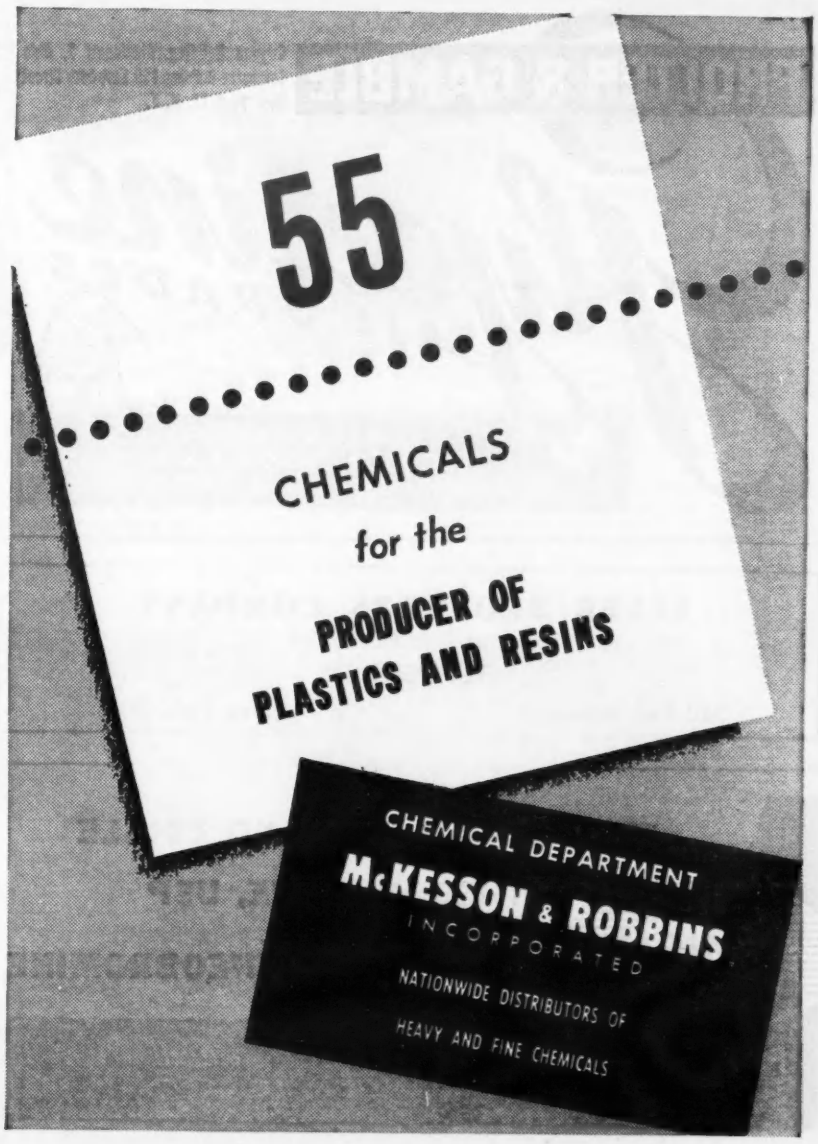
Isoniazid, bulk, $2 per kilo.
Menthol, Brazilian, 15c. per lb.
Molasses, blackstrap, feed grade, New Orleans, ¼c. per gal.
New York, ½c. per gal.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 19, 1951
92.76	92.73	94.35	100.77

(For Current Prices see Page 9)



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apex next year, consumption of glycerin was expected to continue high.

To date, synthetic glycerin has been used principally in the manufacture of resins and other glycerin consuming compounds with natural glycerin alone authorized for use in the USP grade. This grade goes into medicinal and other related products and in order to use the synthetic material in these applications, efforts have been maintained to have the FDA permit its use.

Refined glycerin prices have remained stable for some time, a somewhat unusual situation for this commodity since costs are directly related to the prices of fats and oils used in soap manufacture. It has been stated by some observers in regard to this phenomenon that the presense of synthetic glycerin in this market this year in greatly increased supply has had a stabilizing effect on maintenance of the current price scheduled over so long a period of time. Synthetic glycerin costs have no relation to the prices of fats and oils with the result that unless labor or manufacturing or other related costs increase, prices should continue stable or even trend downward if the market gets easier in the future.

Crude glycerin supplies were extremely tight and producers of domestic crude were reportedly asking as high as 25c. for soaplye and 27c. for saponification, in tankcars. There were few if any takers, at these prices, however. Quantities of Argentine crude have come in and more was reported afloat. Crude importers were generally tight-lipped regarding prices paid but there were reports of domestic sales in the neighborhood of 23c. per pound, on a tankcar basis.

Isoniazid—The price of bulk isoniazid was further reduced last week by producers to $40 per kilo in lots of 25 kilos or more. Smaller quantities were priced somewhat higher. Intense competition in this market plus expanded production of this drug has resulted in the competitive market situation existing today. Manufacturers have been vying for currently available business.

Menthol—This market continued in the doldrums with Brazilian menthol down 15c. per pound. The Japanese was holding firm with prices ranging from $7 to $7.25 per pound, duty paid. Currently Brazilian menthol was offered at $5.45 per pound and was competitive with synthetic, racemic menthol Although inventories in the hands of consumers were said to be low, buying has continued, for the most part, hand to mouth. By next month, dealers were hopeful of an increased seasonal pickup in demand.

Molasses—Feed molasses prices were lower in the Gulf area during the week ended October 14, 1952. At New Orleans, the cane blackstrap price was mostly 10c. per gallon with a few offerings at 10½c. and 9¾c. per gallon. At New York blackstrap quotations ranged from 11c. to 11½c. per gallon.

Demand for feed molasses continued good in the Gulf area and on the west coast. A slightly increased demand was reported for the east coast. Supplies of feed molasses were adequate at all points except Jacksonville and Savannah.

Sales of Cuban blackstrap to buyers in the United States totaled 93,200,000 gallons as of September 30, 1952, according to the Cuban Sugar Stabilization Institute. Of this amount, 21,200,000 gallons were delivered from storage in the United States leaving a balance of 109,800,000 gallons. Of the 80,000,000 gallons of blackstrap set aside for local consumption in Cuba, approximately 47,000,000 had been utilized as of September 30, 1952.

Citrus molasses prices continued to decline, dropping $5 per ton at Dunedin, Auburndale and Lake Wales; from $20 to $15 per ton. Supplies were limited and very limited at most Florida points with the exception of Dade City where the

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supply was reportedly adequate for current demand.

Milk Powder—Manufacturers' stocks of total nonfat dry milk solids at 167,576,000 pounds for August 31 were the highest for any date in nearly 18 years of record. Stocks at the end of August were 34 percent higher than a year earlier and more than double the 5-year average for the date. Holdings of spray-dried nonfat milk were 128,588,000 pounds, a gain of 25 percent from a year earlier and 163 percent from the August 31 5-year average. Roller-dried nonfat milk stocks were 38,988,000 pounds, a gain of 76 percent from a year earlier and 29 percent from the 5-year average for the date. Stocks of dry whole milk in the hands of manufacturers on August 31 were 23,602,000 pounds, a decline of 10 percent from a year earlier but a gain of 9 percent from the 5-year average for the date. Spray-dried whole milk stocks totaled 23,454,000 pounds, a decline of 10 percent from a year earlier but a gain of 10 percent from the 1946-50 average for the date. Roller-dried stocks were 148,000 pounds, down 23 percent from a year earlier and 45 percent from the 5-year average

Manufacturers' sales of total nonfat dry milk solids during August were 59,917,000 pounds, a decline of 15 percent from the preceding month and 8 percent from a year earlier. Sales of dry whole milk were 6,374,000 pounds, down 6 percent from the preceding month but only fractionally higher than a year earlier

The United States Department of Agriculture purchased 27,999,000 pounds of nonfat dry milk solids during the first 8 months of 1952 for purposes of price support. During the first 25 days of September they purchased an additional 4,606,000 pounds.

Perchloroethylene — Demand for this solvent was said to be on the increase as a result of the quickened tempo in both civilian and military production. Supplies were ample for current inquiry according to producers and were expected to continue so in the immediate future. Prices held unchanged.

The Tariff Commission reports that production in June aggregated 6,513,166 pounds while that in July this year totaled 8,144,715 pounds.

Propyleneglycol—Demand for this polyol was reportedly fair while supplies were adequate for current inquiry Prices held unchanged.

The Tariff Commission reported that production of propyleneglycol in July, 1952, totaled 8,439,866 pounds compared to the 7,973,458 pounds turned out in June.

Streptomycin—According to latest available statistical data, production of streptomycin this year has been making substantial gains each month. Prices were not too firm but the market was holding fairly steady. Supplies were more than adequate for current demand but increasing consumption by governmental agencies was expected to maintain a sustained demand for this material in months to come.

The Tariff Commission reports that streptomycin production during July, 1952, totaled 2,423,765 grams compared to the 1,999,065 grams produced in June this year. In the first five months of this year, streptomycin production has expanded better than 20 percent over that during the corresponding period in 1951.

Production of dihydrostreptomycin, however, was almost doubled in the first half of the year compared to last year as a result of expanded production capacity. According to the Tariff Commission, production of dihydrostreptomycin in July, 1952, aggregated 7,774,329 grams, compared with June's production total of 13,187,639 grams.

Sugar—The Department of Agriculture announced that distribution of sugar in the continental United States during the week ended October 4, 1952 totaled 161,944 short tons, raw value, compared to 140,005 tons during the corresponding week last year

Total distribution for civilian and military use from the first of the year to date aggregated 6,398,878 tons, same basis, compared with the 6,120,666 tons distributed during the corresponding period last year.

Trichloroethylene — Demand for this polychlorinated olefin was said to be fair to good depending upon the producer queried. Supplies were adequate for current inquiry. There has been a definite pickup in the consumption of this solvent in the past few months following the full scale resumption of steel production.

Production of trichloroethylene during July, 1952, totaled 17,455,250 pounds compared to the 15,438,152 pounds turned out in June, according to the Tariff Commission.

Vitamins—Demand for most synthetic vitamins was showing its usual seasonal pickup. Supplies were adequate for current inquiry and producers did not foresee any difficulty in meeting demand in the immediate future.

Vitamin A was going along fairly good especially the synthetically produced material. The use of synthetic vitamin A in the fortification of margarine, authorized since late August, has been gaining momentum, according to some observers. Both the natural and synthetic A were currently competitively priced. However, a further downward revision in the price of the synthetic was considered quite feasible in the opinions of some in the industry. Natural vitamin A prices have been holding steady due to firm price schedules maintained at the primary source abroad.

Philadelphia College of Pharmacy Alumni Ass'n Elects Pines Secretary

The alumni association of the Philadelphia College of Pharmacy and Science, Philadelphia, has named Charles C. Pines secretary, to succeed the late Prof. Freeman P. Stroup. Mr. Pines was president of the alumni association last year, and has been a member of the college faculty since his graduation in 1921. He is now associate professor in general chemistry and administrative assistant to the dean.

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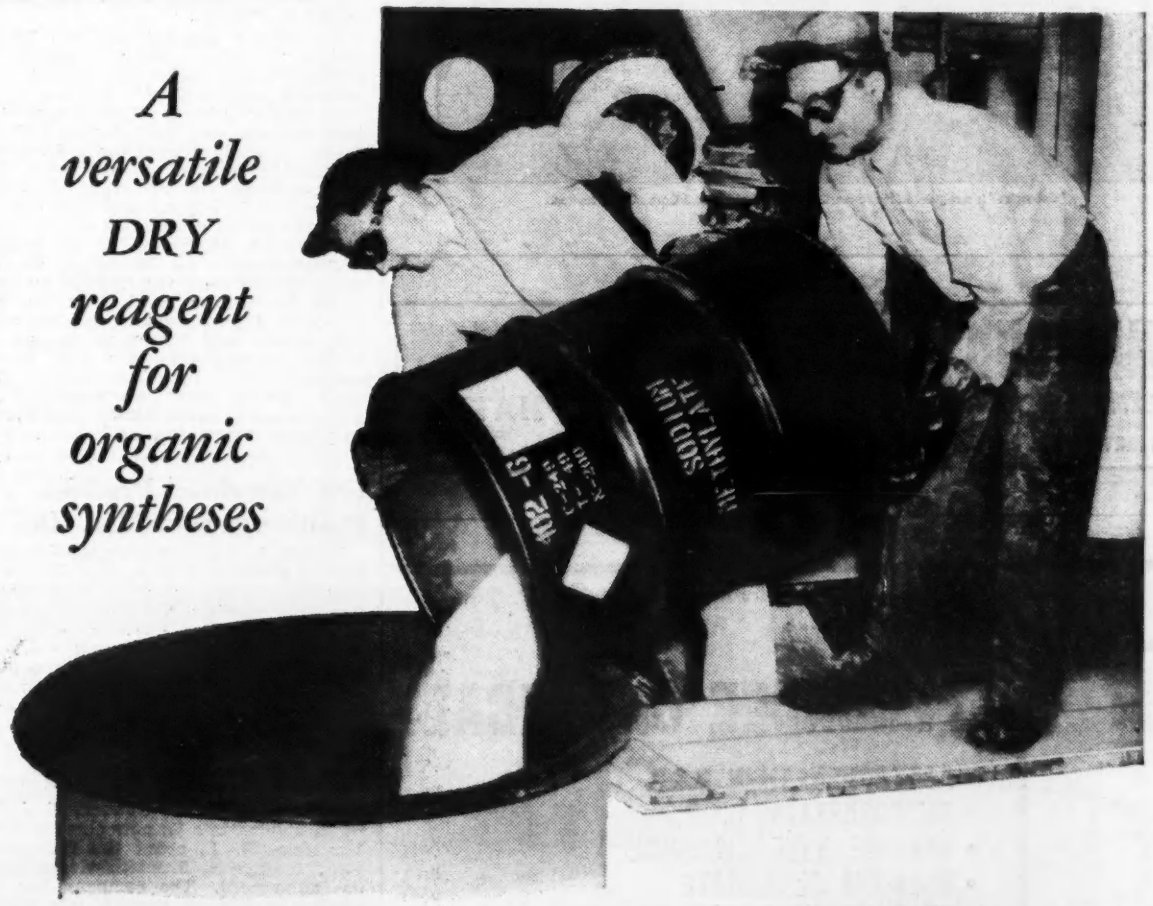

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'Wonder Drug' Story Hit by Int'l Minerals

International Minerals & Chemical Corporation, Chicago, has taken exception to an article appearing in the November issue of *Pageant* magazine entitled "Betasyamine—New Wonder Drug," according to a statement by J. R. T. Bishop, vice-president in charge of the amino products and pharmaceutical divisions of the corporation.

The *Pageant* article presents a description of limited clinical research that has been made in certain degenerative diseases during the past two years employing two products, betaine and glycocyamine which, when used in combination, have been given the trade name of "Betasyamine." This product is manufactured by International Minerals which has been supporting a controlled research program.

Mr. Bishop voiced exceptions to the article in a telegram which he has sent to about 150 doctors and scientists who have been participating in the clinical research program on "Betasyamine." Copies of the statement have also been sent to the editor of the *Journal* of the American Medical Association, the Food and Drug Administration, and to the editor of *Pageant*.

Mr. Bishop charged that the *Pageant* article "contained many statements regarding 'Betasyamine' that lacked sober, scientific confirmation." He added that "this matter is being called to your attention because such extravagant and premature assertions have the sad effect of raising the hopes of the sick when there is insufficient research data at hand to warrant such hopes." Pointing out that it is the policy of International Minerals "to restrict discussion of the efficacy of 'Betasyamine' to the critical arena of scientific literature and to make no claims as to its efficacy until after the most thorough and painstaking clinical trial," Mr. Bishop said that his company disclaims responsibility for the *Pageant* article, noting that International Minerals "had no actual knowledge that such a story was to be published until too late to protest its publication."

CSC Veterinary Products Position to Donald A. Hoff

Donald A. Hoff has been appointed veterinary products manager of CSC pharmaceuticals, a division of Commercial Solvents Corporation, New York. Mr. Hoff in 1947 established a five-state sales territory for CSC pharmaceuticals with headquarters in Kansas City, Mo., and previously was employed in the research center of the concern. He will make his new headquarters in Terre Haute, Ind.

Mennen to Quit Newark

Mennen Company, Newark, N. J., will begin moving into its new plant in Morris Township, N. J., about the first of the year, George S. Mennen, vice-president, has announced. The company has been located in Newark since it was founded seventy-five years ago. Mr. Mennen said that the company had outgrown its Newark facilities and that the new Morris Township plant, which has 264,000 square feet of floor space, for the first time will permit the firm to consolidate office, manufacturing and warehousing operations under one roof.

Trade Briefs

Lehn & Fink Company has appointed O. G. Kennedy general sales manager.

Mutual Drug Company, Cleveland, Ohio, has changed its name to Forest City Industries, Inc.

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Magnamycin, New Antibiotic, Discovered by Pfizer & Co.

A new antibiotic, magnamycin, which may prove effective against bacteria which are immune to such antibiotics as penicillin and streptomycin, has been discovered in the biochemical research laboratories of Chas. Pfizer & Co., Brooklyn, N. Y. The new drug is now undergoing clinical tests. According to a Pfizer spokesman, early reports indicate that these tests will confirm test-tube results showing that bacteria which can live in the presence of older antibiotics cannot survive attack by this latest drug.

In a report on the new drug, Pfizer scientists state that magnamycin does not have cross-resistance with other antibiotics of general use, namely penicillin, streptomycin, terramycin, chloramphenicol, aureomycin, polymyxin B and bacitracin. In other tests on animals, the report said that magnamycin was found to destroy most gram-positive bacteria, such as the pneumonia germ and streptococci, and to hit large viruses and Rickettsia such as the organisms which cause psittacosis and Rocky Mountain spotted fever, respectively. The drug is ineffective against gram-negative bacteria, the Pfizer researchers said.

Beryl Buying Program Set To Spur Small Producers

A purchase program to encourage expansion in the production of beryl ore by small producers was announced last week by the General Services Administration. Any producer whose total anticipated or actual production of domestic beryl ore is less than twenty-five short dry tons a year is eligible to participate. In the case of larger producers, the agency will negotiate the purchase of their production.

The uniform purchase price for beryl ore from the small producers, on the basis of short ton units of contained beryllium oxide (BeO), is as follows:—8 to 8.9 percent BeO, inclusive, $40 per unit; 9 to 99.9 percent BeO, inclusive, $45 per unit, and 10 percent BeO and over, $50 per unit.

ACDS Elects Hug President

The Associated Chain Drug Stores has elected William J. Hug, president of Sun Drug Company, president. Other officers elected were:—Vice-president, A. R. Hoffman, vice-president of Kinsel Drug Company, and executive secretary, E. D. McDaniel.

Lederle Polio Vaccine May Lead to Immunity

Lederle Laboratories Division, American Cyanamid Company, New York, has developed a vaccine which may offer immunity to poliomyelitis, Dr. Herald R. Cox, of Lederle, has announced. Dr. Cox made his report at the University of California.

The new vaccine, it was said, has already been tested on twenty human volunteers. None of them developed any bad side effects and all developed protective antibodies in the blood, giving a clear indication that the vaccine is effective. The vaccine has been produced from only one of the three strains of virus that cause poliomyelitis, the Lansing strain, which is the second most common type, although regarded as probably the most lethal. Commercial production of the vaccine is not expected until 1954.

AEC Approves Uranium Plants Power Agreements

The Atomic Energy Commission has approved agreements with the Ohio Valley Electric Corporation and with Electric Energy, Inc., to supply electric power required to operate uranium-235 production plants now under construction.

Ohio Valley Electric, made up of fifteen private power companies, will supply 1,800,000 kilowatts of electric power to operate the uranium-235 plant being constructed in Pike County, Ohio. Electric Energy, a group of five private power companies, will supply 235,000 kilowatts of power for the operation of the plant being built near Paducah, Ky.

Trade Briefs

Sturgis S. Wilson, president of Schieffelin & Co., New York, is chairman of the drugs and pharmaceutical committee of the 1952 United Hospital Fund campaign.

Dr. Philip A. Boyer, associate medical director of Schenley Laboratories, Inc., has been appointed a member of the committee on resident fellowships of the American College of Chest Physicians.

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Cacao Output of Gold Coast Seen at 537,000,000 Pounds

The American Consul at Acora has advised that the cacao production of the Gold Coast for 1952-53 now is being forecast at 537,000,000 pounds, according to the Office of Foreign Agricultural Relations. This preliminary forecast for the harvest just begun may be reduced if unfavorable weather conditions exist during the next few months.

The Gold Coast produces approximately one-third of the total production of cacao and during the past three years has supplied over 200,000,000 pounds per year to the United States market and is by far the largest individual supply.

The American Consul at Salvador, Bahia, Brazil, has forecast the 1952-53 total cacao crop about 206,000,000 pounds in comparison with the 1951-52 total of 231,000,000 pounds. Brazil, the second largest producer, supplied the United States market in the past three years with approximately 160,000,000 pounds of cacao per year.

Trade estimates place the Nigerian crop above last year and the Costa Rican crop is expected to be unusually high due to excellent weather conditions in the producing areas. Little is yet known about the prospects for the cacao crop in the other producing countries. If the total production as forecast is achieved this would place the 1952-53 production at a slightly higher level than the 1951-52 estimate.

Pfizer Promotes Barwick, Richardson; Opens Facility

The antibiotic sales division of Chas. Pfizer & Co., Brooklyn, N. Y., has announced the appointment of Courtland Barwick as southern regional manager and the naming of Carter Richardson as manager of the Richmond, Va., district. At the same time Pfizer announced the formal opening of its new warehouse in Atlanta, Ga., which will provide regional offices for the company's antibiotics, bulk chemical and agricultural sales divisions.

Mr. Barwick is being placed in charge of the region containing the five districts with headquarters in Richmond; Atlanta; Birmingham, Ala., and Dallas and Houston, Tex. Mr. Barwick, who has been with Pfizer two years, was previously manager of the Charlotte, N. C., district. Mr. Richardson joined Pfizer after associations with other pharmaceutical firms and was special hospital representative before receiving his present appointment.

The Atlanta warehouse is located at 1511 Chattahoochee avenue. George Weyprecht, regional manager for Pfizer's bulk chemical sales division, will be in charge of the Atlanta office, assisted by Mr. Barwick. O. T. Royal, district manager, will be resident representative of the agricultural sales division.

Sir John Simonsen Retiring

Sir John Simonsen has announced his retirement as director of Colonial Products Research, an English concern, effective at the end of the year. His successor will be Dr. R. A. Galley, who will also take over responsibility for the work of the Colonial advisory bureau. Dr. J. R. Furlong, the present head of the bureau who was due to retire at the end of 1952, has agreed to remain for another year as deputy director of Colonial Products Research. Sir John is an authority on the chemistry of essential oils and terpenes, and was awarded the Fritzsche medal in 1949.

American Home Products Elects

American Home Products Corporation has elected Dudley Browne, head of its corporate patent and trademark department, a vice-president of the concern. For many years Mr. Browne represented American Home Products in patent matters in Washington, D. C.

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US Revenue Returns Increased During Aug.

Collections of internal revenue during August totaled $5,396,631,502.66, as compared with $4,893,431,411.70 in the corresponding month of 1951, according to the Bureau of Internal Revenue of the Treasury Department. Among the collections reported by the bureau were the following:—

	August 1952	August 1951
Coconut and other vegetable oils, processed	$1,873,135.27	$1,698,810.35
Distilled spirits, domestic, excise tax	104,854,703.18	106,063,932.87
Distilled spirits, imported, excise tax	10,945,178.41	12,682,449.41
Gasoline, including floor tax	74,180,848.08	64,817,496.97
Lubricating oils	6,056,513.88	9,730,076.19
Matches	888,247.80	371,017.44
Narcotics, including marihuana and special taxes	38,564.21	34,237.69
Silver bullion sales or transfers, stamp tax	1,757.45	1,147.34
Sugar	7,900,454.62	8,258,307.66
Toilet preparations, excise tax	8,849,488.30	10,252,706.86
Transportation of oil by pipeline	1,998,182.61	2,498,060.38

Schering Germany Selling To US Consumers Again

Schering A. G., west Germany, has made its appearance again on the US market as a supplier of bulk hormones, fine and industrial chemicals. Schering's plants and laboratories, located in west Berlin and the United States and British zones of west Germany, are in full production with enlarged manufacturing capacities and added research facilities.

The company reports that its domestic and foreign sales show a considerable upward trend, with 1951 sales 40 percent above 1950 levels despite declining prices. The concern has named Henley & Co., New York, as its exclusive sales agents in the US for pharmaceutical and chemical bulk products.

Trade Briefs

Sharp & Dohme, Inc., has received first prize in the *Financial World* survey of annual reports in the drug products category.

Lee Bristol, president of Bristol Myers Company, is chairman of the drug division of the 1952 fund-raising drive of the Travelers Aid Society of New York.

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Parke, Davis Opens Branch, Fills 3 Managerial Positions

Parke, Davis & Co., Detroit, Mich., has announced that it will open new branch headquarters in the Empire State Building, New York, about the first of November. The company also announced the appointment of an assistant manager at the Atlanta, Ga., branch and the naming of two field managers in Canada for Parke, Davis & Co., Ltd.

The new office in New York will house sales personnel and New York representatives of the company's clinical investigation department and its overseas division. The appointee at Atlanta is John M. Lengyel, who will serve as assistant to the manager in charge of internal operations. Mr. Lengyel has been with Parke, Davis since 1950.

E. G. Kington and A. W. Speed have been appointed to the Canadian posts. Mr. Kington will make his headquarters in Vancouver, B. C., and supervise sales territories in British Columbia and Alberta. Mr. Speed's headquarters will be in Winnipeg and his territory will include Manitoba and Saskatchewan.

Fritzsche Honors Hamann

Dr. Edmund H. Hamann, chief chemist in charge of flavor research for Fritzsche Brothers, Inc., New York, recently completed twenty-five years of service with the company and became a member of its Quarter-of-a-Century Club. Fritzsche pointed out that Dr. Hamann's sentimental attachment preceded his joining the firm by many years, for his father had started with Fritzsche as an office boy and later became one of its outstanding salesmen. Before becoming associated with the company, Dr. Hamann received a Fritzsche fellowship for organic research at Columbia University. When he first joined Fritzsche, Dr. Hamann was stationed at the Clifton Chemical Company's laboratories. He was transferred to the New York laboratories in 1929.

AEC Liaison Post Filled

Appointment of James T. Wilson as liaison officer between the Defense Production Administration and the Atomic Energy Commission has been announced by DPA administrator Henry H. Fowler. Mr. Wilson, who was chief of the AEC section of the National Production Authority's special cases branch, has been assigned to the Oak Ridge operations office with the responsibility of assuring cooperation between DPA and NPA with AEC on problems which will aid AEC and which come under the jurisdiction of the two production agencies.

D&O Paper Adds Perfume Column

Dodge & Olcott, Inc., New York, has added a new feature to its publication, *D & O News*. It is a column entitled, "Perfume Case Histories," which will be a part of all issues from now on.

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Sulphathiazole Products Now Barred in Peru

The Peruvian government has barred the importation and manufacture of sulfathiazole tablets, injectable solutions and other preparations containing single or compound sulfathiazole under a decree issued last May, according to information received by the Department of Commerce.

The American Embassy at Lima reported that officials of the Inspectorate General of Pharmacy said that the use of sulfathiazole tablets and injections is no longer considered necessary and, to the contrary, can be replaced advantageously by other products with less toxic effects.

Merrell Co. Names Jacobs, Werner to Executive Posts

Frank T. Jacobs has been elected vice-president and Dr. Harold W. Werner has been chosen director of the Wm. S. Merrell Company, Cincinnati, Ohio.

Mr. Jacobs is in charge of Merrell's marketing division, which includes sales, advertising, promotion, merchandising, professional service and market research. He has been associated with the company for more than fifteen years and was elected a director in 1950. Mr. Werner is head of the firm's scientific laboratories. He joined the company in 1943.

SDPA Ups Brynildssen

The appointment of Yngvar Brynildssen, as deputy administrator of the Small Defense Plants Administration has been announced by John E. Horne, SDPA administrator. Mr. Brynildssen has been regional director of the SDPA for the Chicago region, which includes Illinois, Indiana and Wisconsin, since last February.

Pa. Confectioners Set '53 Parley

The Pennsylvania Manufacturing Confectioners' Association will hold its seventh annual production conference April 23 and 24, 1953, at Lehigh University, Bethlehem, Pa. Highlight of the conference will be a chocolate symposium. Also on the program will be a discussion of liquid sugar, whipping agents and dietary candies.

Prescription Pricing Data Published

The school of commerce of the University of Wisconsin has issued a bulletin entitled, "Prescription Pricing," by W. S. Apple, instructor in pharmacy administration. The publication is concerned with a study of pricing practices among pharmacists in Wisconsin.

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ALOES—120 cs, Wessel Duval & Co, Puerto Cabello
AMMONIUM BICARBONATE—150 dms, Chemical Mfg Co, Liverpool
CARBONATE—10 dms, Glasgow
ANILINE DYES—45 dms, Hensel Bruckmann & Lorbacher, Rotterdam
64 dms, C A Haynes, Rotterdam
16 dms, Sandoz Chemical Works, Havre
22 dms, Geigy Co, Havre
22 dms, Heemsoth Kerner, Liverpool
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4 dms, Marine Midland Trust Co, Rotterdam
6 dms, Rotterdam
ANISE SEED—23 bgs, R D Heins, London
ANTIMONY—80 crtns, Watson Geach & Co, Liverpool
REGULUS—45 cs, C Gitlan & Co, Antwerp
193 cs, Mercantile Metal & Ore Corp, Split
945 cs, Split
ARABIC GUM—960 bgs, National City Bank, Port Sudan
203 bgs, Irving Trust Co, Port Sudan
100 bgs, Port Sudan
250 bgs, Liverpool
BAUXITE ORE—3,917 tons, American Cyanamid Co, Everton
5,640 tons, Aluminum Import Co, Georgetown
BEESWAX—98 bgs, Chase National Bank, Lisbon
222 bgs, J H Schroder, Lisbon
30 blks, Bank of London & South America, Lisbon
36 bgs, Reaud Geck Corp, Havana
16 bgs, Schutte & Focke, Ciudad Trujillo
98 bgs, Lisbon
12 bgs, Havana
BENZOIN GUM—96 bdls, Meer Corp, Singapore
BERGAMOT OIL—4 cs, Lo Curto & Funk, Rotterdam
BERYL ORE—3,609 bgs, J H Gill, Bombay
BILE, OX—1 bbl, J M Rogers, Oslo
2 bbls, National City Bank, Seville
SHEEP—2 bbls, National City Bank, Seville
BLEACHING POWDER—200 dms, Chemical Mfg Co, Liverpool
BOTANICALS—100 bls, Superintendence Co, Split
40 bgs, S B Penick & Co, Split
BRENTHOL—4 dms, Heemsoth Kerner, Liverpool
BRUCINE—10 cs, Hamburg
CADMIUM—182 cs, Industrial Sales Corp, Antwerp
CANANGA OIL—1 dm, American Aromatics Inc, Tandjong Priok
CANDELILLA WAX—625 bgs, Chemical Bank, Tampico
CARAWAY SEED—150 bgs, Louis Furth, Rotterdam
CASEIN—1,000 bgs, T J Kane, Buenos Aires
40 bgs, H P Petersen, Copenhagen
143 bgs, National City Bank, Ponto Delgada
2,000 bgs, Melbourne
CASHEW NUT SHELL LIQUID—395 tons, Irvington Varnish & Insulator Co, Cochin
CASSIA—82 bls, Rotterdam
CASTOR BEANS—793 bgs, Spencer Kellogg, Cape Haitien
768 bgs, Spencer Kellogg, Port au Prince
572 bgs, A C Israel, Port au Prince
782 bgs, Spencer Kellogg, Manta
1,077 bgs, Swiss Bank Corp, Lisbon
772 bgs, Lisbon
OIL—98 tons, Arnhold & Co, Rotterdam
218 tons, Spencer Kellogg, Bombay
300 tons, Amsterdam
CEDAR OIL—1 dm, Naugatuck Aromatics, Casablanca
CELERY SEED—63 bgs, Wm E Martin, Marseilles
13 bgs, S B Penick & Co, Marseilles
110 bgs, C T Wilson, Marseilles
55 bgs, Otto Gerdau, Marseilles
59 bgs, Karl H Landes & E Balint, Marseilles
59 bgs, Becker Mayer Seed Co, Marseilles
CHESTNUT EXTRACT—1,000 bgs, International Expediters, Genoa
1,000 bgs, Barkey Importing Co, Genoa
1,000 bgs, Leghorn
CHINA CLAY—70 bgs, Gallard Schlesinger, Liverpool
CINNAMON QUILLS—30 bls, Volkart Bros, Colombo
CHLORAL HYDRATE—6 dms, Lo Curto & Funk, London
COALTAR DYES—2 cks, Interchemical Corp, Rotterdam
2 dms, Nova Chemical Corp, Hamburg
16 dms, C A Haynes, Genoa
CODLIVER OIL—400 bbls, Arista Oil Products Co, Aalesund
COLUMBITE ORE—117 bgs, Union Carbide & Carbon Corp, Lagos
COPAL GUM—35 bgs, Internatio Rotterdam, Singapore
CREAM OF TARTAR—100 bbls, Tarragona
CRESYLIC ACID—427 dms, H A Gogarty, Liverpool
150 dms, M W Hardy & Co, London
DAMMAR GUM—86 bgs, O G Innes Corp, Tandjong Priok
70 bgs, Internatio Rotterdam, Singapore
DEXTRIN—25 bgs, Stein, Hall & Co, Rotterdam
105 bgs, Bank of Manhattan Co, Rotterdam
EARTH COLORS—1,350 bgs, T H Deutz, Amsterdam
125 bbls, Baker Irons & Dockstader, Bremen
EGG ALBUMEN—200 cs, Viking Butter Co, Genoa
200 cs, Stein, Hall & Co, Genoa
ERGOSTEROL—1 cs, E F Drew & Co, Bremen
EUCALYPTUS OIL—25 dms, Melbourne
FISHMEAL—1,242 bgs, Woodward & Dickerson, Safi
1,030 bgs, Lindfors Chemical Co, Safi
FISH OIL—10 dms, Ponta Delgada
LIVER OIL—2 dms, Albumina Supply Co, Yokohama
FUEL OIL—105,825 bbls, Heas Inc, Punta Cardon
10,000 bbls, Asiatic Petroleum Corp, Curacao
210,000 bbls, Esso Standard Oil Co, Aruba
103,000 bbls, Esso Export Corp, Aruba
GALL, OX—1 dm, Van Gelder-Fanto Corp, Rotterdam
GELATIN—3 bgs, Rotterdam
GLANDS—159 bbls, Rotterdam
GLUE—600 bgs, Transatlantic Animal By Products Corp, Antwerp
75 bgs, Liverpool
GLUESTOCK—158 bls, John Gorvers, Havana
390 bls, John Gorvers, Puerto Plata
80 bls, Havana
GYPSUM—5,395 tons, Newark Plaster Co, Walton
10,321 tons, U S Gypsum Co, Hantsport
10,291 tons, National Gypsum Co, Dingwall
624 bgs, Whittaker Clark & Daniels, Liverpool
300 bgs, C B Crystal, Liverpool
HAARLEM OIL—10 cs, H A Gogarty, Rotterdam
HYDRAZINE HYDRATE — 20 cs, Mathieson Chemical Corp, London
INFUSORIAL EARTH—2,032 bgs, Johns Manville Corp, Hamburg
IPECAC ROOT—2 bgs, Wessel Duval & Co, Cristobal
9 bgs, National City Bank, Cristobal
9 bgs, Chase National Bank, Cristobal
IODINE—164 kgs, Antony Gibbs & Co, Tocopilla
IRON BLUE—34 dms, Van Oppen & Co, Liverpool
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KARAYA GUM—123 bgs, S B Penick & Co, Bombay
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127 bgs, Wm M Allison & Co, Bombay
246 bgs, Thurston & Braidich, Bombay
67 bgs, East Asiatic Co, Bombay
61 bgs, Paul A Dunkel, Bombay
KIESERITE—4,000 bgs, Purepac Corp, Bremen
KOLA NUTS—210 bgs, Becker Mayer Seed Co, Lagos
LAVENDER OIL—12 dms, Ungerer & Co, Marseille
LIVERMEAL—2,185 bgs, Wessel Duval Co, Rotterdam
LOCUSTBEAN GUM—100 bgs, Brown Bros, Liverpool
512 bgs, Brown Bros, Lisbon
1,036 bgs, Guaranty Trust Co, Rotterdam
200 bgs, Morningstar, Nicol, Genoa
448 bgs, Genoa
MACE—60 cs, C T Wilson, Singapore
MAGNESITE—1,000 bgs, Globe Shipping Co, Trieste
MAGNESIUM CARBONATE—72 cs, National City Bank, Liverpool
MANDARIN OIL—6 cs, Fritzsche Bros, Itajai
MANGANESE ORE—420 bgs, Union Carbide & Carbon Corp, London
MANGROVE EXTRACT—1,200 bgs, Saxe Cutch Corp, Sandakan
MARJORAM LEAVES—61 bls, M J Golembeck, Marseille
MENTHOL—50 cs, Wm H Muller, Amsterdam
70 cs, Rotterdam
MILK POWDER—984 bgs, M E Franks, Rotterdam
1,200 bgs, D L Sterling, Rotterdam
2,027 bgs, Aero Sea Shipping Co, Rotterdam
SUGAR—10 dms, European Chemical Co, Rotterdam
600 bgs, Dyer Sugar Co, Rotterdam
200 kgs, Liverpool
MYROBALANS—2,222 bgs, Olson Sales Agency, Vizagapatam
NAPHTHALENE—606 bgs, Gallard-Schlesinger, London
NAPHTHOL—8 dms, E L O'Reilly Co, Hamburg
36 dms, Nova Chemical Corp, Hamburg
16 dms, General Dyestuffs Corp, Rotterdam
NICKEL CHLORIDE—11 cks, Hudson Shipping Co, London
SULPHATE—25 cks, Balex Co, Antwerp
24 cks, Industrial Sales Corp, Antwerp
120 dms, A Johnson & Co, Stockholm
100 bgs, Amplex Chemical Co, London
100 bgs, Rotterdam
60 bbls, Rotterdam
95 bgs, Liverpool
NUX VOMICA—492 bgs, London
OLIVE OIL—50 dms, Sterling National Bank, Seville
100 dms, Irving Trust Co, Seville
25 dms, Guaranty Trust Co, Seville
250 dms, Chemical Bank, Seville
464 dms, National City Bank, Seville
645 dms, Credit Suisse, Seville
50 dms, Bank of Manhattan Co, Seville
260 dms, Manufacturers Trust Co, Seville
15 dms, International Food Trading Co, Genoa
30 dms, Hellenic Bank, Tarragona
75 dms, Credit Suisse, Tarragona
50 dms, Leghorn Trading Co, Marseilles
50 dms, Uddo Taormina, Marseilles
OURICURY WAX—66 bgs, Wm H Muller, Amsterdam
PALM OIL—810 tons, Balfour, Guthrie, Matadi
PALMAROSA OIL—1 pot, Volkart Bros, Bombay
PAPAIN—8 cs, Meer Corporation, Colombo
8 cs, Irving Trust Co, Colombo
PAPRIKA—500 bgs, M J Golombeck, Hamburg
400 bgs, Wedeman & Godknecht, Rotterdam
PARACRESOL—1 kg, H A Gogarty, Liverpool
PATCHOULI OIL—4 dms, Internatio Rotterdam, Tandjong Priok
PEATMOSS—2,000 bls, Atkins & Durbrow, Bremen
3,825 bls, Premier Peatmoss Corp, Bremen
300 bls, Halfmoon Mfg & Trading Co, Rotterdam
1,200 bls, J E Bernard, Bremen
PEPPER, BLACK—35 bgs, Mutual Spice Co, Singapore
350 bgs, C M Loeb Rhoades, Singapore
38 bgs, J Berlage, Rotterdam
25 bgs, East India Trading Co, Singapore
WHITE—336 bgs, Otto Gerdau, Singapore
266 bgs, Joenasson & Cross, Singapore
PETROLEUM, CRUDE—155,534 bbls, Cities Service Oil Co, Amuay Bay
110,995 bbls, Asiatic Petroleum Corp, Amuay Bay
125,000 bbls, Esso Standard Oil Co, Puerto La Cruz
120,000 bbls, Atlantic Refining Co, Puerto La Cruz
POLLACKLIVER OIL — 95 dms, H A Gogarty, Yokohama
45 dms, Transocean Commerce Inc, Yokohama
95 dms, Albumina Supply Co, Yokohama
50 dms, Interocean Chemical & Minerals Corp, Yokohama
POLYVINYL CHLORIDE—7 cs, American Lucoflex inc, Havre
POPPY SEED—708 bgs, Murwal Inc, Rotterdam
POTASSIUM CYANIDE—267 dms, Liverpool
GUAIACOLSULPHONATE—6 dms, S Stern Henry, Havre
MURIATE—1,000 tons, Synthetic Nitrogen Products Corp, Bremen
PERSULPHATE—23 bbls, Riches-Nelson, Rotterdam
POTATO STARCH—200 bgs, Manco Intern Corp, Rotterdam
600 bgs, Crasley Products, Rotterdam
PSYLLIUM SEED—152 bgs, T M Duche & Sons, Bombay
PYRIDIN—13 dms, Tar Residual Inc, Newport
PYRITES—249 cks, American Metal Co, Leixoes
QUEBRACHO EXTRACT—515 bgs, River Plate Import & Export Corp, Buenos Aires
QUICKSILVER—500 flks, Rijeka
QUINIDINE SULPHATE—2 cs, Hamburg
RESIN, SYNTHETIC—106 bgs, F L Kraemer, London
191 bls, F L Kraemer, London
SAFROL—14 dms, Magnus, Mabee & Reynard, Yokohama
SAGE LEAVES—200 bls, Superintendence Co, Split
OIL—2 bbls, Superintendence Co, Rijeka
1 cs, Superintendence Co, Rijeka
SAGO FLOUR—385 bgs, Arabol Mfg Co, Singapore
550 bgs, Stein, Hall & Co, Singapore
167 bgs, American Key Products, Singapore
SANDALWOOD CHIPS—63 bgs, Meer Corp, Bombay
ROOT—891 bgs, W J Bush & Co, Bombay
SCHEELITE ORE—200 bgs, National City Bank, Leixoes
SEEDLAC—400 bgs, Schwab Bros, Calcutta
100 bgs, Mac Lac Co, Calcutta
300 bgs, Haeuser Shellac Co, Calcutta
500 bgs, Mantrose Corp, Calcutta
200 bgs, P N Rowe, Calcutta
300 bgs, Gillespie Rogers Pyatt, Calcutta
100 bgs, Colonial Commerce Co, Calcutta
SENNA LEAVES—100 bls, Sterling Drug Inc, Colombo
PODS—35 bls, Lo Curto & Funk, Tuticorin
SERPENTARIA ROOT—40 bgs, Prentiss Drug & Chemical Co, Bombay
SHARKLIVER OIL—20 dms, Consumers Import Co, Yokohama
1 dm, Collett Week Nibecker, Oslo
SHELLAC—50 bgs, Dings & Schuster, Bremen
60 kgs, Flora Lac Co, London
1,000 bgs, Mantrose Corp, Calcutta
SIENNA—50 bgs, Leghorn
SODIUM BICARBONATE — 3,684 bgs, Chemical Mfg Co, Liverpool
SILICOFLUORIDE — 500 bgs, Henry Sundheimer, Hamburg
STEATITE—275 cs, Leghorn
SULPHURIC ACID—5 cs, J T Baker Chemical Co, Tampico
SWORDFISHLIVER OIL—1 dm, Interocean Chemical & Minerals Corp, Yokohama
TALC—3,800 bgs, Charles Mathieu, Genoa
TANNING EXTRACT—2,000 bgs, Chase National Bank, Leghorn
TAPIOCA FLOUR—90 bgs, Geismar & Co, Itajai
1,500 bgs, Geismar & Co, Imbituba

THYME LEAVES—72 bls, Wm E Martin, Marseille
74 bgs, Louis Furth, Marseille
TITANIUM ALUMINUM—200 dms, Liverpool
TRAGACANTH GUM—221 bgs, Morningstar Nicol, Liverpool
50 cs, Meer Corp, Rotterdam
TRICHLOROETHYLENE—77 dms, Chemical Industries Co, Liverpool
TUNAFISHLIVER OIL—3 dms, Van Gelder-Fanto Corp, Yokohama
TUNG OIL—97 tons, Santos
ULTRAMARINE BLUE—40 bgs, Filo Color & Chemical Corp, Antwerp
UREA—273 bgs, Terra Chemicals Inc, Rotterdam
2,000 bgs, Chemical Mfg Co, Liverpool
VALONIA CUPS—3,711 bgs, Barkey Importing Co, Izmir
VANILLA BEANS—19 cs, Lo Curto & Funk, Rotterdam
VARNISH—3 cs, Kaufman & Vinson, Havre
VERATRUM—9 bls, Kelly's America Ltd, Rotterdam
WHITING—1,500 bgs, Pluess Staufer, Antwerp
WOLFRAM ORE—500 bgs, Lisbon
WOLFRAMITE — 200 bgs, National City Bank, Leixoes
WOOL GREASE—16 dms, Overseas Metal & Ore Corp, Kobe
55 dms, Gallard Schlesinger, Antwerp
61 dms, Hudson Shipping Co, Antwerp
YLANG-YLANG OIL—5 kgs, Chemical Bank, Havre
ZINC CHLORIDE—12 dms, Riches-Nelson, Antwerp

Baltimore

PEATMOSS—1,650 bls, Premier Peatmoss Corp, Bremen

Los Angeles

AGAR—50 bls, The Pan Asiatic Trading Co Inc, Nagoya
CHILLIES—140 bgs, Hismoco American Co, Singapore
CINNAMON QUILLS—50 bls, The East India Trading Co, Colombo
COPRA—500 tons, The American Trust Co, Cebu
500 tons, Spencer Kellogg & Sons Inc, Iloilo
389 tons, The Procter & Gamble Co, Cebu
662 tons, The Procter & Gamble Co, Nasipit
428 tons, The Procter & Gamble Co, Jolo
CAKE—2,925 bgs, Atkins Kroll & Co, Cartagena
6,000 bgs, Balfour Guthrie & Co, Cebu
11,000 bgs, Pacific Vegetable Oil Corp, Manila
13,440 bgs, Wilbur Ellis Co, Manila
2,240 bgs, Balfour Guthrie & Co, Manila
2,000 bgs, Van Waters & Rogers Inc, Manila
4,000 bgs, Atkins Kroll & Co, Cebu
3,734 bgs, Balfour Guthrie & Co, Zamboanga
MEAL—2,000 bgs, The Pacific Vegetable Oil Corp, Manila
5,000 bgs, Snow & Co, Manila
PEATMOSS—1,000 bls, Holland Bulb Importers, Bremen
500 bls, Atkins Kroll & Co, Bremen
PEPPER, BLACK—80 bgs, B O Ireland Inc, Djakarta
20 double bgs, Milne & Co, Singapore
SEEDLAC—280 double bgs, The East Asiatic Co, Bangkok
SUNFLOWER SEED MEAL—5,239 bgs, Armour & Co, Buenos Aires
WHITING—2,000 bgs, Balfour Guthrie & Co, Liverpool
100 bgs, Antwerp
WOOL GREASE—22 dms, N I Malmstrom, Liverpool

Norfolk

PEATMOSS—550 bls, Premier Peatmoss Corp, Bremen

Philadelphia

ANTIMONY ORE—35 tons, C Tennant Sons & Co, Antofagasta
REGULUS—165 cs, Sall Metals, Antwerp
ASBESTOS FIBER—6,400 bgs, Keasby & Mattison, Beira
400 bgs, Phila National Bank, Capetown
BERYL ORE—49 tons, Capetown
BONE—300 tons, Manufacturers Trust Co, Casablanca
CRYOLITE—2,125 tons, Pennsylvania Salt Manufacturing Co, Ivigtut
FISHMEAL—280 tons, Lindfors Chemical Co, Safi
FUEL OIL—120,000 bbls, Esso Standard Oil Co, Aruba
GLYCERIN—132 tons, Buenos Aires
GYPSUM—4,850 tons, U S Gypsum Co, Hantsport
PEATMOSS—380 bls, C Gastmeyer, Rotterdam
1,050 bls, Bank of Manhattan Co, Bremen
800 bls, Rotterdam
PETROLEUM, CRUDE—310,475 bbls, Atlantic Refining Co, Mena Al Ahmadi
230,700 bbls, Atlantic Refining Co, Puerto La Cruz
115,700 bbls, Atlantic Refining Co, Las Piedras
237,072 bbls, Socony Vacuum Oil Co, Covenas
125,692 bbls, Socony Vacuum Oil Co, Puerto La Cruz
117,723 bbls, Standard Oil Co, Tripoli
489,437 bbls, Gulf Oil Corp, Puerto La Cruz
306,286 bbls, Gulf Oil Corp, Mena Al Ahmadi
101,480 bbls, H G Schad, Sidon
POPPY SEED—90 bgs, Kaufman Co, Rotterdam
QUEBRACHO EXTRACT—910 bgs, Buenos Aires
RAPE SEED—360 tons, Rotterdam
WHITING—18 tons, Antwerp

San Francisco

CASTOR BEANS—1,360 bgs, Pacific Vegetable Oil Corp, Manta
COPRA—500 tons, Pacific Vegetable Oil Corp, Cebu
500 tons, Pacific Vegetable Oil Corp, Jose Panganiban
1,000 tons, El Dorado Oil Works, Bulan
500 tons, Cargill Inc, Cebu
500 tons, East Asiatic Co, Davao
1,500 tons, Manila
CAKE—179 tons, Balfour Guthrie, Cebu
COTTONSEED MEAL—6,514 bgs, Wilbur Ellis Co, Pisco
FISHMEAL—2,174 bgs, Wilbur Ellis Co, Ilo
1,087 bgs, Wilbur Ellis Co, Chimbote
LITHIUM STEARATE—142 bgs, South American Minerals & Mine Corp, Liverpool
60 bgs, M W Hardy & Co, Liverpool
MEATMEAL—3,244 bgs, Taylor Walcott Co, Amsterdam
MILK POWDER—2,963 ctns, Western Dairy Products, Auckland
1,000 bgs, Western Dairy Products, Gothenburg
PEPPER, BLACK—195 bgs, B C Ireland, Singapore
PETROLEUM CRUDE—89,862 bbls, Standard Oil Co, Sunga Pakning
24,808 tons, Standard Oil Co, Rastanura
UREA—500 bgs, C M C Chemicals, Liverpool
1,102 bgs, Atkins Kroll & Co, Antwerp
WOOL GREASE—26 dms, Antwerp

TGA Elects Storfer

The Toilet Goods Association, New York, has announced that Benson Storfer, president of Parfums Corday, Inc., has been elected a director of the association, to succeed Charles A. Mooney, who recently resigned. At the same time the association announced the appointment of Pierre Harang, of Houbigant, Inc., as chairman of the convention program committee, and the naming of Lamson Scovill, of the Scovill Manufacturing Company, as convention committee chairman for 1953.

Chemical Industry Safety Record Up by 10 Percent

The safety record of the chemical industry showed a 10 percent improvement for the first seven months of 1952 compared with the like period of 1951, according to figures released by the Manufacturing Chemists' Association. The accident rate for the industry, the association noted, continues to be well below that for industry as a whole.

Measured in disabling injuries per million man-hours, accident frequency in the chemical industry stood at 4.13 for January through August, 1952, as against 4.61 for the comparable 1951 period. Accident severity, in days lost per thousand man-hours, was 0.78 for 1952, 0.66 for 1951. Both of these figures are substantially under the 1951 rates for all industry of 10.06 for frequency and 0.97 for severity, the association said. The MCA data are based on reports from eighty-eight major companies which account for about 75 percent of total United States production of chemicals.

Bids Wanted

Acid, Cresylic, 962 gals., New York Chemical Corps Procurement Agency, 180 Varick St., N. Y. 14, N. Y., inv. 30, Oct. 31.

Alcohol, 21,200 gals. denatured ethyl alcohol, New York Chemical Corps Procurement Agency, 180 Varick St., N. Y. 14, N. Y., inv. CML-29, Oct. 31 and 14, 500 gals. ethyl alcohol, inv. 37, Nov. 10; 350,000 lbs. ethyl alcohol, Picatinny Arsenal, Dover, N. J., inv. 71, Oct. 23; 4,920 1-pt. bots. dehydrated alcohol, 1,170 5-gal. drums alcohol, Procurement Division, Supply Section, Vet. Adm. Bldg., Washington 25, D. C., inv. A-175, Oct. 27.

Drugs and Chemicals, 14,500 gals. trichlorethylene, New York Chemical Corps Procurement Agency 180 Varick Street, New York 14, N. Y., inv. CML-31-B-Oct. 31 and 150 gals. isopropyl 2; 4 dichlorophenoxyacetate, inv. 51, Oct. 28 and 16,000 lbs. liquid chlorine, inv. 64, Nov. 13; 250,000 lbs. calcium carbide, San Francisco District Corps of Engineer, 180 New Montgomery St., San Francisco, Calif., inv. ENG-361, Oct. 28 and 5,005 gals. technical acetone, inv. ENG-362, Oct. 28.

Morphine and atropine sulphate tablets; 36,600 tubes of 20, 1,368 bots. of 500 pentobarbital sodium tablets; 4,320 bots. of 100 potassium permaganate tablets; 1,440 bots. of 100 propylthiouracil tablets; 6,912 bots. of 100 quinidine sulfate tablets; 26,512 bots. of 100 saccharin sodium tablets; 6,696 bots. of 1,000 sodium bicarbonate and peppermint tablets; 4,800 bots. of 100 sodium chloride tablets; 29,760 bots. of 500 thiamine hydrochloride tablets, Armed Services Medical Procurement Agency, 84 Sands St., Brooklyn 1, N. Y., inv. 507, Oct. 27 and 15,120 pkgs. diagnostic diphtheria toxin, 1,000 10-cc. bots. insulin injection, 4,500 10-cc. bots. insulin protamine zinc, inv. 501, Oct. 31.

Ammonium chloride tablets, 6,720 bots. of 100; 4,800 bots. of 100 cascara sagrada tablets; 8,208 bots. of 100 digitalis tablets; 4,584 bots. of 500 estrogenic substance tablets; 28,008 bots. of 1,000 ferrous sulfate tablets, Armed Service Medical Procurement Agency, 84 Sands St., B'klyn 1, N. Y., inv. 516, Oct. 28 and 1,152 bots. of 100 aminophylline tablets; 720 bots. of 500 p-aminosalicylic acid tablets; 2,880 bots. of 100 ethisterone tablets; 8,064 bots. of 100 dehydrocholic acid tablets; 2,928 bots. of 100 diethylcarbamazine tablets 0.5 MG; 10,080 bots. of 100 same 0.05 G M; 1,152 bots. of 100 digitoxin tablets; 10,368 bots. of 100 ergonovine maleate tablets; 8,640 bots. homatropine hydrobromide; inv. 506, Oct. 28.

Phenol, 150,000 lbs. (carbolic acid) Aviation Supply Office, 700 Robbins Ave., Phila. 11, Pa., inv. B-54,414, Oct. 28; tetrachlorethylene, 32,240 gals. Navy Purchasing Office, 111 E. 16th St., N. Y. 3, N. Y., inv. 1087, Oct. 31 and 45,000 gals. DDT insecticide, inv. 1058, Oct. 27 and 2,100,000 insecticide aerosol, DDT, and allethrin, 12-oz. dispensers, inv. 1061, Oct. 28.

Trichlorethylene, 12,000 lbs., Pine Bluff Arsenal, Arsenal, Ark., inv. 35, Oct. 24. Debutylphthalate, 51,500 lbs., Picatinny Arsenal, Dover, N. J., inv. 70, Oct. 27. Dibutyl phthalate, 30 tons; 90 tons dinitrotoluene; 12 tons diphenylamine; 12 tons potassium sulphate; 1,650 lbs. antimony sulfide, General Service Admns., Federal Supply Service, Region 3, 7th & D Sts., S. W., Washington 25, D. C., inv. 84-390-99-990-3513, Oct. 27 and 4,992 lbs. DDT insecticide aerosol bombs; 4,100 lbs. DDT insecticide, inv. 2B-20467-R, Oct. 27.

Nitrous ether, 288 ¼-lb. bots.; 288 ¼-pt. bots. hydriodic acid; 1,416 1-lb. jars wool fat; 3,000 1-lb. jars same hydrous, Procurement Division, Supply Section, Veterans Adm. Bldg., Washington 25, D. C., inv. A-177, Oct. 22 and 504 1-lb. cans bentonite; 350 5-gal. drums cresol solution, 276 6-lb. bots. hydrochloric acid; 3,552 ¼-lb. bots. paraldehyde, 600 1-lb. bots. urea; 3,600 1-lb. bots. xylene; inv. A-183, Oct. 27, and 744 1-lb. bots. benzene, 840 1-pt. bots. glycyrrhiza fluid extract; 1,008 1-lb. bots. gelatin; inv. A-189, Oct. 28 and 1,104 boxes of 12 ¼-oz. tubes boric acid ophthalmic ointment, 396 1-gal. bots. cascara sagrada fluid extract, 8,800 1-gal. bots. magnesia magma, 1,320 4-lb. canisters magnesium, 2,304 1-lb. bots. zinc oxide, inv. A-179, Oct. 23.

Potassium Crystalline Penicillin G, 18600 boxes of 10 bots. of 500 units, 572 ¼-lb. jars theobroma oil, 648 bots. of 100 mercuric cyanide tablets, 768 bots. of 1,000 sodium chloride tablets, 228 boxes of 6 posterior pituitary injection, Procurement Division, Supply Section, Vet. Adm. Bldg., Washington 25, D. C., inv. A-173, Oct. 23 and 3,840 1-lb. bots. acetone, 180 100-lb. drums sodium thiosulfate, 2,016 1-lb. bots. sulfuric acid, 336 1-lb. bots. terpin hydrate, 528 bots. of 1,000 thiamine hydrochloride tablets, inv. A-169, Oct. 28 and 4,000 bots. epinephrine injection, inv. A 191, Oct. 27.

Graphite, 4 tons graphite powder, General Services Adm., Federal Supply Service, Region 3, 7th and D Sts. S. W., Washington 25, D. C., inv. 35-17907-R., Nov. 8.

Hydrogen, 143,650 cu. ft., hydrogen gas, Bonneville Power Adm., Dept. of Interior, 327 N. E. Oregon St., Portland 8, Ore., inv. 6766, Oct. 29.

Paint, 5,416 ½-pt. cans pigment paste, 13,900 1-oz. tubes same, 2,000 gals. synthetic metal and wood primer, 2,000 gals. synthetic lacquer resting primer, Aviation Supply Office, 700 Robbins Ave., Phila. 11, Pa., inv. B-54,412, Oct. 27 and 7,500 gals. camouflage paint, 1,700 gals. enamel primer, inv. B-54, 413, Oct. 28; 25 gals. aluminum paint, 64 qts. gloss enamel, 153 gals. same, 1,078 gals. synthetic primer, 100 gals. spar varnish, Benicia Arsenal, Benicia, Calif., inv. 54, Oct. 24; 3,000 gals. interior enamel, 600 gals. latex base paint, General Services Adm., Federal Supply Service, Region 3, 7th & D Sts., S. W., Washington 25, D. C., inv. 3G-19902-R, Nov. 5 and 252 qts. gloss enamel, 2,500 gals. paint, inv. 3-G-20116-R, Nov. 5 and 1,100 gals. interior oil paint, inv. 3G-19868-R- Oct. 23.

Potassium Nitrate, 54,879 lbs., New York Chemical Corps Procurement Agency, 180 Varick St., N. Y. 14, N. Y., inv. 28, Oct. 31.

Sodium Bicarbonate, 32,128 lbs., New York Chemical Corps Procurement Agency, 180 Varick St., N. Y. 14, N. Y., inv. 34, Nov. 10.

Wax, 9,500 1-gal. cans, water emulsion floor wax, New York Quartermaster Procurement Agency, 11 E. 16th St., N. Y. 3, N. Y., inv. 345, Oct. 28.

Zinc Oxide, 1,998,144 lbs., New York, Chemical Corps Procurement Agency, 180 Varick St., N. Y. 14, N. Y., inv. 36, Nov. 10.

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Botanical Drugs, Spices, Gums

Among the hardest hit in the spot market of the spice group was red peppers because of the lack of available supplies. Most varieties were on a nominal basis only, and some of the domestic red peppers, notably Louisiana, were up in price. A sharp advance was noted in Ginseng root because of the short supply against which there was a strong demand both domestically and for export. So strong was the demand that some roots were being shipped semi-dry in export, especially from Western ports. Black pepper advanced 1c. per pound on spot, and cascara sagrada was up 6c.

Cloves were quite strong, both Madagascar and Zanzibar moving up another 3 cents per pound. Vanilla beans, especially Bourbons, were moving in a very strong market, and last week prices were advanced 25 cents per pound on both Bourbon and Mexican beans.

The only price movement among the balsams was a 10 cent advance in Peru, with some sellers having still higher price views. Tolu balsam remained steady but firm.

There was some softening in the market on certain coriander and cumin seeds, but the price movements were confined to only certain varieties and were only fractional. White pepper declined 2 cents per pound.

Lady's slipper, Pennyroyal and wild lettuce were among the herbs and leaves currently found to be quite short in supply, along with a host of other drugs and botanicals because of this season's short crop. In the case of these domestic items, the shortages were primarily due to too few workers being available to gather the botanical items in what was considered laborious and poor paying hard work. The laborious nature of the work arose from having to dig roots in hard dry ground, and the poor pay for hard work arose from the fact that offered prices were not high enough to compete with wages paid in the increasingly industrial South.

Balsams

Peru—This item moved in a stronger market last week with prices advancing 10c. per pound over former levels. prices ranged between different sellers and varied as to quantity from $1.40 per pound to $2.15 per pound. Replacement costs were said to be advancing.

Tolu—Prices remained unchanged last week, ranging from $4 to $5.90 per pound. Demand was reported as steady at relatively low volume, on what was regarded as currently adequate supplies.

Beans

Vanilla—The market for Bourbon beans was reported as definitely strong with prices advancing 25c. per pound last week, bringing current quotations to within a range of $3.50 to $3.75 per pound. This was a result of firm price ideas on the part of shippers as reported the previous week, which was evidenced by their attitude in refusing cabled orders and demanding higher prices. With replacement costs going up, sellers had no recourse but to advance bean prices to at least partially offset increased costs.

There were no Tahitian beans available on the current market, and accordingly the price was nominal, last business having been done in the vicinity of $3.

Bourbons were expected to remain strong for a long time in view of the short crop expected this year, and in fact for several years to come, because growers have been discouraged to the point of not keeping up plantings because of the low return from a price point of view. There's currently more money in coffee, and upping bourbon bean prices now will not immediately result in any improvement in the bleak supply picture.

Mexican beans tended to follow the Bourbon market upward, advancing 25 cents per pound. Whole beans were quoted at $4 to $4.75 per pound, while cuts ranged from $3.50 to $3.75.

Berries

Juniper—While trading was limited, the price position on this item was well held because of the strong tone in foreign sources induced by a shortage of high quality material for shipment to the United States. Spot prices were therefore unchanged from levels which have prevailed over recent months, despite the low volume of business. Holdings of American importers were kept firm by the lack of ready replacement.

Prickly Ash—The price pattern appeared to hold in the range of 70c. to 75c. per pound. The slow Summer pace of business had not as yet known any significant pick-up other than a mildly greater inquiry, despite the insecure position of future stocks.

Gums

Arabic—This market was steady and little changed from levels which have prevailed over the previous week. However, it was felt that the strong undertone of the market created by high replacement costs and unsettled political conditions abroad, might result at any time in an upward trend in spot market prices.

Karaya—Prices quoted in this market were unchanged in some quarters and definitely stronger in others, particularly on the better grades. No. 1 sold as high as 35c. per pound while No. 2 was quoted up around 28c. per pound in some quarters. No. 3 held in the vicinity of 22c. to 23c. per pound.

Herbs and Leaves

Lettuce—Wild lettuce leaves were said to be in short supply in primary market centers due to inadequate collections as a result of too few gathers to bring in the material.

Passion Flower—Last year there was an over-production of this item, but this year it was under-produced. This resulted in only conservative buying of this year's crop, and although the crop was short, there was not the pressure of demand that characterized most botanical items this year. Prices were unchanged, and the trend not likely to show too much strength in the immediate future.

Pennyroyal—The market was firm with prices holding in the range of 45c. to 50c. per pound. The scarcity of supplies so far as this season's crop was concerned, however, lent considerable strength to the market, and some upward revision of prices was felt likely to develop later.

Prince's Pine—There was a definite shortage for this year foreseen in this market, but the short crop harvest has as yet not been reflected in the price structure which as of last week held to around 60 cents per pound.

Roots

Ginseng—A strong price trend was noted in this item as a result of the short supply position against which demand has risen sharply. Prices last week were advanced to levels of $16.50 to $17 per pound, and dealers were said to be buying everything in sight. Primary market reports indicated that the export need was so great that even semi-dry roots were

Market Trends

Prices Advanced

Drugs

Cascara sagrada*, 6c. per lb.
Ginseng root, $3.50 per lb.
Peru balsam, 10c. per lb.

Other Articles

Clove, Madagascar, 3c. per lb.
Zanzibar, 3c. per lb.
Pepper, black, spot*, 1c. per lb.
Pepper, red, La., 8c. per lb.
Savory, Spanish, 4½c. per lb.
Vanilla beans, 25c. per lb.

Prices Reduced

Drugs

None

Other Articles

Coriander seed, Moroccan, ¼c. per lb.
Cumin seed, Iranian, ¾c. per lb.
Pepper, white, 2c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 19, 1951
102.17	100.25†	100.30	116.47

* Obtained too late for index calculation.
† Revised.

(*For Current Prices see Page 9*)

Imports Detained by FDA

Week Ended Oct. 10

New York

Cassia, 2 lots, 170 bales: filthy.
Codliver Oil, 148 drums: not USP.
Fennel seed, 143 bags: filthy.
Kola nuts, 3 lots, 75 bags: live insects.
Mace, 2 lots, 40 bags: insects.
Pepper, black, 17 lots, 1,192 bags: insect infested.
Pimento, 100 bags: insect infested.
Sloeberries, 23 bales: insect infested.

Baltimore

Psyllium husks, 2 lots, 323 bags: wormy.

For Late Market Developments, See Page 4

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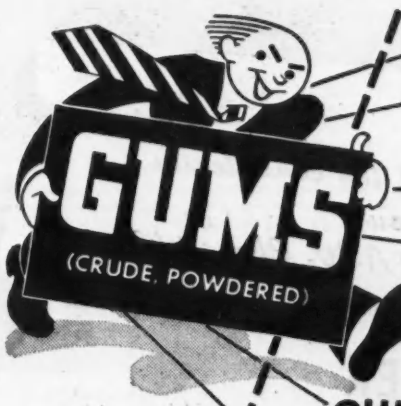

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going into this market. Goods was said to be moving through the San Francisco port destined for the far East.

Lady's Slipper—This year there was a very definite shortage of this item, primarily as a result of insufficient and unwilling diggers. Prices were still holding at $1.70 to $1.75 per pound.

Pink—Prices of $2.50 to $2.55 per pound were still in effect on this item, but how long they would hold was a matter for conjecture in view of the shortage of this year's crop. Dry hard ground made digging difficult, and there were too few workers available to do the gathering.

Seeds

Coriander—Moroccan material was off ¼c. per pound last week, prices being quoted in the range of 6 to 6½c. per pound. The supply position at home and abroad was such that there was not sufficient competition to create any significant price fluctuation and the ¼c. drop above was therefore not taken to mean any marked trend in price movements. Seeds from the Argentine and European sources were unchanged in price.

Cumin—Iranian seed was off ¾c. per pound last week, bringing price levels down to a range of 16 to 16½c. per pound. Indian seeds were virtually non-existant on the spot market, and prices were entirely norminal. Moroccan and Syrian seeds were unchanged.

Poppy—In line with the trend in seeds and spices of origin in Holland and Turkey, the price position was firm reflecting the stiff price ideas prevailing in primary markets. Spot stocks of Chech and Polish seeds had not as yet been replaced, so that the price structure on these materials was simply nominal.

Spices

Cassia—The price picture on cassia was essentially the same as in the previous week, except that Chinese selected rolls were a bit stronger, being quoted at 25c. per pound. Other grades were unchanged. Cassia buds remained at 55 to 56c. per pound.

Cloves—This market was quite strong. United States consumption being relatively smaller than far Eastern demand, the American market had to pay high prices for what Madagascar and Zanzibar material was shipped our way. Prices for spot cloves were reported at $1.50 per pound for both Madagascar and Zanzibar cloves last week, an advance of 3c. per pound over the previous week.

Ginger—There were no shifts in the various grades of ginger last week. The market was described as relatively steady.

Pepper—The pepper business was getting to be more risky as the market strengthened and prices continued to advance. Under the strong demands currently enjoyed by primary markets, foreign shippers were inclined to ship material of such low quality with respect to cleanliness that practically every shipment received was subject to detention by the FDA. This placed the burden on the American importer, not only of paying the shipper for the pepper plus the dirt at pepper prices, but also of going to the expense of having the shipment cleaned up so as to pass FDA inspection. In the course of the clean-up, losses were sustained not only of the dirt removed, but of moisture. All this resulted in very considerably higher costs to the importer, which is of such magnitude that it cannot be absorbed, and hence must be reflected in higher pepper prices.

There was no recourse by which the American buyer could hold the foreign shipper responsible, and the matter resolved itself into being a case of operating on the above basis, or not getting any pepper. Spot prices on black pepper at the mid-week stood at $1.72 per pound for Malabar, with nearby Malabar at $1.68. October shipments of Malabar and Lampong material was listed at $1.38 per pound, while October shipments of straight Malabar were $1.51. November shipments of Lampong and Malabar were listed at $1.34 per pound.

Red peppers were in a very bad shape so far as supplies on the spot market were concerned. This was particularly true of red peppers of the Turkish, Nigerian, and Japanese hontaka varieties, they being

—Continued on page 73

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Essential Oils, Other Aromatics

An increase in business activity, noticeable though not extensive, characterized the essential oils and aromatic chemicals market during the past week. The pick-up in demand for some materials has been considerable and in most cases the cause has been the expected preparation for the holiday season. Buyers were slow, however, to place large orders and this tendency has served to retard the fourth quarter increase in sales. Price changes during the week were exclusively in a downward direction, this in itself being a significant fact. The most important reduction was made in California orange oil. The price was reduced sharply by one large manufacturer. With recent crops exceptionally large and a great surplus of the oil on hand, competition has become keen.

Other price declines were noted for apricot kernel oil, as well as bois de rose, cardamom and lemongrass oils. The low price at which bois de rose oil was offered from one source was not followed by other dealers handling it, as the price floor imposed by the country of origin represented a barrier to widespread price reductions. Lemongrass oil remained in a weakened condition, the price drop of the past week being only one of a series in the immediate past. The decline in the price of cardamom oil appeared to be without great significance. The price index for the week was 170.64, showing a decrease of .40 point.

In the aromatic chemicals market, a single price change was made with the lowering of the price of citral. The reduction was in accord with the greatly weakened condition of the raw material, lemongrass oil. The effect was felt in all the derivatives of this oil, placing them in a position of very good supply. Other aromatics were available at unchanged prices and were produced in quantities sufficient to satisfy current demands.

Market Trends

Prices Advanced

None

Prices Reduced

Citral, 10c. per lb.
Oil, apricot kernel, 7c. per lb.
Bois de rose, 10c. per lb.
Cardamom, $3 per lb.
Lemongrass, 10c. per lb.
Orange, sweet, distilled, California, 5c. per lb.
Expressed, California, $1 per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 19, 1951
170.64	171.04	173.83	218.94

(*For Current Prices see Page* 9)

Essential Oils

Apricot Kernel—A reduction of 7c. per pound in the low quotation for this oil was reported, bringing the low offering to 35c. Since the oil was of limited interest in the trade, the lower price at which it was available was expected to have a slight effect. Stocks currently on hand were not great but were sufficient to satisfy the recent interest shown by consumers.

Bergamot—Artificial oil continued to be readily available to those currently interested from $2.90 per pound, although the bulk of sales was made at prices higher than this low offer. The price range of the natural oil remained steady at the prices maintained over the recent past, although demand was reported to be currently somewhat light.

Bois de Rose—Brazilian oil was offered during the week at 5c. per pound less than previously, bringing the price down to $3.90. It was noted that at a price as low as this the oil was offered in this country for less than the minimum export price fixed by the country of origin. Relatively few offers of the oil were made at this low price, the others ranging up to $4.60 per pound. The amount of the material available was reported to be good and was ample to fill the demands of the market at the time.

Cardamom—A price decline of $3 was registered for this oil, bringing the minimum offer to $45 per pound. The reduction appeared not to indicate a general trend, however, for an average interest was said to be the general rule. Stocks of average size were available to satisfy the present moderate rate of inquiry.

Celery—A minimum price of $16.50 per pound was continued for this oil. Demand was reported as no greater than usual, this being a slow but fairly steady item on the market. Most manufacturers offering it maintained stocks ample to cover the recent demands of the market, which have been no greater than average in size.

Cinnamon—Bark oil remained firm at the recently lowered price of $25 per pound, with most offers, however, ranging considerably higher than this price. A further lowering of prices on replacement material was thought by some to be possible, although no estimates were made as to how extensive the reductions might be. Leaf oil was offered from $1.65 per pound, showing a decline of 35c. per pound at the low end of the price range. It was available in ample quantities and replacements could be had whenever needed.

Citronella—An extremely weak market was featured for this oil, as new shipments of low cost material were added to stocks that were already high. Ceylon oil was priced from 55c. per pound and Java type from 45c. per pound. No signs of strengthening were noted, with replacement generally obtainable at the same low prices.

Dillseed—Imported Indian oil was not readily available on the market, as many dealers have received no shipments recently. As a result some reported that they were without stocks temporarily. The scarcity caused little hardship among buyers, however, for there was very slight interest in the oil. Where it was to be found the oil was available at the prevailing price of $3.55 per pound.

Dillweed—An ample new crop was responsible for the plentiful supplies of this oil that were available on the market in past weeks. Manufacturers were reported to have satisfactory inventories on hand to take care of the current good interest being shown by their customers. Prices ranged from $3.50 to $4.25 per pound. Indications were that they would remain steady for the immediate future.

Garlic—A very tight supply situation continued in the past week, when no signs of relief were to be found. The oil was offered at $7.25 to $8 per ounce, but was not readily available even at this comparatively high price. Many dealers were of the opinion that a continued upward price trend was due and felt that the present tightness of supplies would characterize the market for the immediate future.

Geranium — Algerian oil remained steady within the price quotations reported earlier. Interest was maintained at approximately the levels noted in recent weeks and dealers had no difficulty satisfying these demands. A recent decline in prices for Bourbon oil was halted for the time, although indications were that a further weakening in prices for this oil might be felt in coming weeks. For the past weeks it was reported in good supply and was available from $12 per pound.

Grapefruit — Supplies of this oil remained limited, with many dealers not able to offer it at all. Interest has continued at the good rate noted in past weeks so that the immediate future of the oil should be firm. A previous minimum offer of $2.50 per pound was maintained.

Juniper—Berry oil was steady at the quotations prevailing recently, the minimum offer received being $2.50 per pound, $3.60 per pound for twice rectified oil. Moderate interest on the part of consumers was reported and was easily met by manufacturers. The offers on the market for tar oil continued at 42c. per pound.

Lemon—Available supplies of the oil were tight, keeping prices firm at the levels established recently. California oil was available at prices ranging upward from $6, depending upon brand and was reported in good demand. Prices for Italian oil varied greatly, the lowest being $5.85. A wide range in the quality of the imported material accounted for the great variation in prices.

Lemongrass—Continued low prices for this oil and extensive inventories indicated that no relief was in sight for the growers, who have recently stated that their case in the primary market was one of extreme distress. An offer of $1 per pound was made during the past week, lower by 10c. than the previous low price. Spot offers at prices even lower than this were reported for some lots of distress material. No immediate relief in the form of a firmer market could be foreseen, it was reported.

Lime — Mexican oil was steady from $6.50 per pound and was available in quantities sufficient to satisfy the fairly slight inquiry that has been reported in recent weeks. When available, West Indian oil was priced from $7.40 per pound. This variety was received in small quanti-

For Late Market Developments, See Page 4

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ties and was said to be in light demand in past weeks.

Orange—A drastic cut was made by one producer in the price for the California oil when it was lowered $1 per pound, bringing it down to $1.75. The reason given by observers to account for such a large reduction was the large size of recent crops and the resulting increase in stocks of oil on the market. Sweet oil showed a reduction, being offered at 80c., 5c. per pound less than the previous lowest offer. Oil from other producers was offered from $1.35 per pound. Imported oils were available at unchanged prices and in sufficient amounts to satisfy normal demands for them.

Origanum—An evenness was displayed by the prices of this oil, as they held steady within the range of $2.15 to $2.75 per pound. A continued firmness was expected in the trade, where observers cited the increased labor costs at the source during the past several years as a reason that argued against a price reduction. Demand was reported as moderate and was met without difficulty by manufacturers.

Palmarosa—Firm prices were noted for this oil, and a tendency to move in an upward direction expected since the new crop was not due until November. Current prices ranged from $7.35 to $8.40 per pound, with spot offers firm and likely to rise. Demand for the oil was said by some observers to be not so sharp as in past years and this prevented the rise in prices from becoming as great as was expected.

Peppermint—Wide variations were reported in current offerings of this oil. A low price of $6.10 was available, although many quotations went considerably higher than this. These varied offers prevented any settled outlook at the moment, a status that was expected to continue until the new crop was available.

Rosemary—Spanish oil was available at prices that ranged from 60c. per pound and standard material from 80c. per pound. Both varieties could be purchased readily by those interested, and in almost any quantities that might be required. The oil was expected to continue in the firm position it has held for quite some time.

Spearmint—The price position of this oil has remained firm, with no sign of a decline apparent. It was stated by several dealers that development of a year-round market has placed the oil in this healthy state. Both the regular and the redistilled oil were available in large quantities. The very large and consistent demand, however, prevented an oversupply from appearing.

Vetiver—No price news was made by any variety of this oil, as all remained available at quotations within the ranges quoted previously. Some doubts were encountered in the trade in regard to Bourbon oil, however, and the possibility of a rise in prices mentioned. A scarcity of the better material at the source was the reason for this speculation.

Wormseed — Prices remained between $8 and $9.25 for this oil, a high level in the opinion of many dealers. There was some expectation that lower prices might be forthcoming. These predictions were tempered, however, by the knowledge that the primary source was for the moment showing independence and would be able to retard any downward tendency in prices. Some manufacturers have in past weeks discontinued carrying this oil, although those who maintained it in stock

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were able to satisfy most current demands.

Aromatic Chemicals

Amyl Butyrate—Producers reported no change in the status of this aromatic chemical during the past week. The item has shown a great deal of stability for many months with prices holding at 90c. to $1.05 per pound, depending upon producer and quantity. Demand was said to be average and stocks were sufficient to meet all requirements.

Anethol—The market position of this material continued to be easy. There were ample supplies available and production was maintained without any difficulty. Prices were favorable to the consumer at $1.20 to $1.60 per pound. Demand was reported to be active, particularly with respect to those users who could substitute the material for the scarce, high-priced anise oil.

Borneol — Supplies appeared to be rather scarce, according to producers. In some places, it was reported, there was none to be had and production has been halted. The prices of $2.25 to $2.50 per pound were largely nominal. Of limited application, the material did not present too great a problem to either consumers or manufacturers.

Citral—One producer of this aromatic was able to reduce the market quotation by 10c. per pound last week, although others have not yet followed along. It was quoted at the new low figure of $3.40 per pound, while ranging to a high of $3.75 a pound. The reduction reflected the extremely weak tendencies exhibited in the pricing of the basic raw material, lemongrass oil, which has been selling at steadily declining prices. From all indications, the aromatic should continue to be favorable to the consumer for some time to come.

Ethyl Vanillin—Still one of the strong spots in the market, this material was limited in supply and rather firm in price, standing at $6.75 to $7.45 per pound. Production has been small, but steady and inquiries from consumers have taken all that has become available.

Eugenol—No change has been noted in this market in recent weeks. Stocks were limited by the absence of clove buds and clove bud oil from which the material is generally made. However, in those places where clove leaf oil could be substituted, production has been maintained and prices as low as $2.80 to $3.45 per pound.

Linalool—Although the current position of this material remained unchanged and prices continued to hold at a firm level, it might be noted that there has been a new weakness evident in the pricing of the basic bois de rose oil. This material was quoted at a new low price during the past week which might, in the future, be reflected in the quotations of the aromatic derivative. Supplies of the chemical were reported to be comfortable and all orders were met quite readily.

Paracresol Methylether—A rather unexcited article, this chemical continued to display a great deal of stability. The price range held firm at $2.15 to $2.50 per pound. Production was steady and provided adequate stocks to meet the normal requirements of consumers, who showed a continuing interest in the article.

Safrol—Large supplies of artificial sassafras oil continued to come from Japan at extremely reasonable prices, thus providing a good source of raw materials for this aromatic. Production was facilitated and offerings were made freely at the attractive price range of 72c. to $1.35 per pound. Demand was reported to be good.

Storax—While only available in a limited amount and produced by only a few manufacturers, the current supply of this material appeared to be sufficient to cover the small needs of users. The price was reported to be steady at $1.25 per pound.

Botanical Drugs

—Continued from page 71

virtually non-existant and prices entirely nominal, Carolina and Mississippi red peppers were also nominal. Some Japanese birdseye material was around at 46 to 47c. per pound, but hontaka peppers were nominally felt to be around 45c. per pound based upon sellers ideas. Mombasa and Sierra Leone were quoted at 43 to 44c. per pound in bags and Haitian at 25 to 26c.

White pepper on the spot market was quoted at the mid-week at $1.58 to $1.60 per pound, while material afloat was listed at $1.55 to $1.57 per pound.

Friday noon quotations on black pepper were as follows: Spot, $1.73 to $1.75 per pound; nearby Malabar $1.58 to $1.60; Lampong October shipment $1.38 to $1.40; November Lampong shipment $1.34 to $1.36.

Hilton-Davis Names Prichett To Chemical Research Post

John J. Prichett has been named associate director of chemical research of the Hilton-Davis Chemical Company, a division of Sterling Drug, Inc., Cincinnati, Ohio. Mr. Prichett will work with Dr. Donald H. Hirtle, research director.

Mr. Prichett was previously associated with Hilton-Davis, from 1937 to 1948, and was also a chemist at the General Aniline Works division of General Aniline & Film Corporation, and the National Aniline Division of Allied Chemical & Dye Corporation. He was also on the staff of A. M. Kinney, consulting engineers. In his new position, Mr. Prichett will be engaged in developing dyestuffs and intermediates for the printing ink and textile fields, and pharmaceutical intermediates for the drug industry.

BIMS of N.Y. Trophy to Dunkel

Paul A. Dunkel, of Paul A. Dunkel & Co., New York, was the winner of the BIMS Martin F. Schultes Memorial Trophy with a net score of sixty-nine in a golf match recently held at the Pelham Country Club, Pelham Manor, N. Y., by BIMS of New York.

Distillation Products Catalog Publish

Distillation Products Industries, Rochester, N. Y., a division of Eastman Kodak Company, has published the thirty-eighth edition of the catalog and price list of Eastman organic chemicals.

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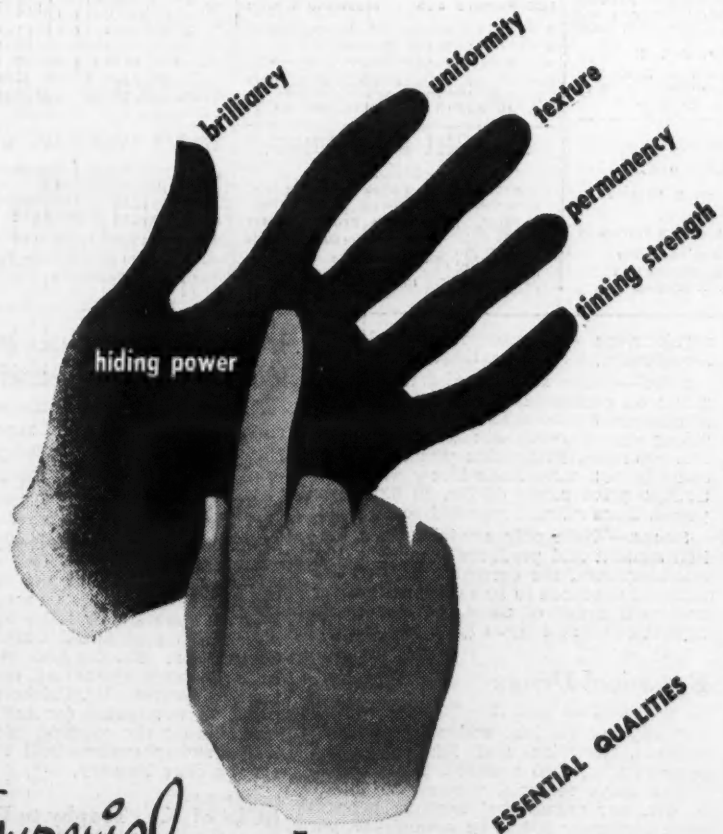

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Protective Coatings Materials

Price schedules of red lead, litharge and orange mineral were reduced early last week, as a result of the further weakening of the market for lead metal. Blue basic lead sulphate was reduced in price, along with lead monosilicate, white lead basic carbonate, white lead basic sulphate, and white lead basic silicate. By the end of the week, the reductions in lead pigments had spread to leaded zinc oxides. Imported Argentine casein was down a few cents as the market grew quiet.

The most significant news in this market was found in the lead pigments last week. Since the oxides were the only pigments to go down with the first decline, some of the other pigments were reduced approximately 2 cents to take care of both reductions. One source reported that the market for zinc oxide was still pretty good, even though the price dropped with the metal.

Some synthetics were still moving very well, and there continued to be some variation in the amount of activity found by different producers. Alkyds were still going strong, except where there was a reported drop in demand from protective enamels. Demand for pure phenolics was said to be fair, as was the demand for rosin modified phenolics. Laminating adhesives have shown a pickup. Polyvinyls also demonstrated that some synthetics were going well. One source revealed a sizable increase in sales of acetates and formals. Demand for formaldehydes used in surface coatings was reasonably fair. One urea-formaldehyde producer reported a very heavy demand from glues and paper.

Natural gums have shown a little better inquiry. Prices were steady. The shellac market was quiet and steady. Prices were unchanged. Casein was said to be on the quiet side last week. Although market conditions in the Argentine were unchanged, there were lower offers of spot material, futures, and some so-called "switch" material on the American market.

Market Trends

Prices Advanced

None

Prices Reduced

Casein, Argentine, 3¼c. per lb.
Lead, blue, basic, sulphate, 2c. per lb.
monosilicate, 0.96c. per lb.
red, 95%, 1c. per lb.
97%, 1c. per lb.
98%, 1c. per lb.
white, basic, carbonate, 1.45c. per lb.
silicate, 8/10c. per lb.
sulphate, 2c. per lb.
Litharge, 1c. per lb.
Orange, mineral, 1c. per lb.
Zinc, oxide, leaded, 35%, 7/10c. per lb.
50%, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 19, 1951
88.43	88.44	88.44	100.02

(*For Current Prices see Page 9*)

Prime Pigments

Aluminum, Paste, Powder—The Bureau of Census reported that producers' net shipments in August were 4,490,000 pounds, compared with 4,343,000 pounds in July, and 1,898,000 pounds in August of 1951.

A breakdown of the figures showed that net shipments of atomized and grained powder were 2,660,000 pounds in August, as against 3,065,000 pounds in July. Flaked powder shipments in August were 387,000 pounds, compared with 303,000 pounds in July. Shipments of paste in August were 1,443,000 pounds, against 975,000 pounds in July.

Blue Lead—Price schedules of basic blue lead sulphate went down 2c. last week. It was said that this pigment dropped further than the metal because there had been no reduction in this market following the last price drop of the metal market.

Current quotations were 14¾c. per pound in carlots, and 15¾c. per pound for less than carlots.

Lead Monosilicate—The current quotation of this pigment became 15.12c. in carlots, and 16.10c. in less than carlots, following the revisions in lead metal.

Litharge—Another reduction of 1c. in this market followed the trend of the metal last week. Current quotations of this oxide were at 15¾c. per pound in carlots, and 16¾c. per pound in less than carlots.

Orange Mineral—Producers reduced the schedules of this oxide last week following the drop in the lead market. The 1c. reduction in orange mineral brought the less than carload price down to 20 1/10c. per pound. The carload price was quoted at 19 1/10c. per pound, however, the material moves more regularly in less than carload quantities, it was said.

Red Lead—Further reductions in the market for lead metal earlier in the week were reflected in the schedules for this oxide. The reduction for red lead was 1c. per pound.

Current quotations of the 95 percent Pb_3O_4 material were 16¾c. per pound in carlots, and 17¾c. per pound in less than carlots The 97 percent grade became 17c. per pound in carlots, and 18c. per pound in less than carlots. Quotations of the 98 percent grade were 17¼c. per pound in carlots, and 18¼c. per pound for less than carlots.

White Lead—The price schedules of the basic carbonate came down to 16¼c. per pound in carlots, and 17¼c. per pound in less than carlots Basic sulphate dropped 2c. to the level of 14¾c. per pound in carlots, and 15¾c. per pound in less than carlot quantities.

Reductions in prices of basic silicate left the current price range at 15c. to 18¼c. per pound for carload quantities, and 16c. to 19¼c. per pound in less than carloads.

Zinc Oxide—Leaded zinc was reduced last week, following the second reduction of the metal in two weeks. Lead-free zinc oxide was unchanged. Current quotations of the 35 percent leaded material were 14¾c. per pound in carlots, and 15¾c. per pound in less than carlots. Leaded, 50 percent in carlots was also 14¾c. per pound, and less than carlots were 15¾c. per pound.

Producers reported that the market was pretty good, in spite of the reduction. The material was moving relatively well. Business was felt to be at a moderate level. It was anticipated that demand would remain at approximately the same levels it has been at for a while longer, however, producers do not know what the more distant future will bring.

Synthetic Resins

Alkyds—Some sources still report very strong activity in this market, while one source stated that there had been a drop in demand for alkyds used in protective enamels. Producers reporting continued strong demand, mentioned that the polyols were not too abundant. One supplier announced a price increase in the alkyds, which amounted to a general 1c. advance.

Phenolics—Demand for pure phenolics was said to be fair. Rosin modified phenolics were also moving at a fair pace. One source stated that there has been a decided increase in laminating adhesives, particularly those resins which are used in making cloth and wood laminations.

Polyvinyls—A producer of the acetates reported that business in this market was currently very good. Sales were up 25 percent over last month and looked as if they would be good for the rest of the year.

Formals were also going well. Demand was up along with the pickup in the electrical business. It was felt that the current levels would be sustained for the remainder of the year.

Supplies of both the acetate and formals were adequate for the immediate needs of consumers. Prices of the polyvinyls have held to their established levels and no changes were expected for the rest of this year.

Urea-formaldehydes — Demand for the formaldehydes used in surface coatings was reasonably fair, one source reported. Manufactured goods such as refrigerators were picking up after the slow months of the summer.

"Urea-formaldehydes used in the manufacture of glues and in paper were enjoying a very heavy demand," a producer stated. One source expected this month to be the biggest month it ever had for these resins.

Lacquer Materials

Dibutuyl Phthalate—According to Tariff Commission figures production of this plasticizer in July was 1,680,036 pounds, compared with June output of 651,498 pounds.

Diethyl Phthalate—July output of this phthalate was 683,029 pounds, as against 455,294 pounds in June, according to the Tariff Commission.

Dioctyl Phathalate—Tariff Commission production figures indicated that July out-

For Late Market Developments, See Page 4

put of dioctyl was 6,504,333 pounds, while production in June was 5,537,598 pounds.

Tricresyl Phosphate—The latest production report from the Tariff Commission indicated output of tricresyl was 1,224,395 pounds in July, compared with 891,495 pounds produced in June.

Natural Resins

Importers said that there has been a little more interest in the gums recently. There were more inquiries and things looked a bit brighter, it was said. Supplies were sufficient to take care of the current demand. There were no particular problems with supplies at the source or shipping of the materials. The present reserve of fairly good stocks was expected to carryover pretty well, unless there were some unusual calls for specific items. Prices have remained at their previously established levels.

Shellac—The market for shellac was relatively quiet last week. It was said that there was a slow but steady level of activity in this market. Prices have remained at their old established levels. Importers said that there was no definite sign of a pickup for orange and bleached grades yet.

Miscellaneous Materials

Casein—Importers stated that the market has shown a definite turn towards a quieter tone. One source stated that consumers were bought up, for the present. Although the price of Argentine material remained 16c. f.o.b. Buenos Aires, some sources were offering material, which had been bought before prices went up, at several cents below the regular market level. Spot material was being offered at 3¼c. less than previous weeks. It was said that some Argentine material was also being offered on a "switch" basis via Sweden at prices less than the market for material sold directly to the American market. All of the various offerings served to confuse the precise range of spot material, when it was offered.

Glue, Hide — Total production of hide glue in August was 4,230,975 pounds, according to the Bureau of Census, compared with 3,023,926 pounds in July, and 5,868,379 pounds in August of last year. Shipments in August, 1952, were 4,401,614 pounds, as against 3,478,214 pounds in July, and 5,084,587 pounds during August, 1951. Stocks at the end of the month of August were 19,372,543 pounds, compared with 19,543,182 pounds in July, and 8,634,168 pounds at the end of August of last year.

Synthetic Adhesives — The following production information comes from the Bureau of Census and is related to the hardwood plywood industry (pounds, dry basis):—

Consumption

	Second Quarter	First Quarter*
Phenolic resin glues	15,502,000	15,298,000
Urea resin glues	350,000	291,000
Soy bean glues	1,155,000	1,461,000
Tapioca glues	703,000	932,000
Other waterproof glues	310,000	268,000
Other moisture resistant glues	328,000	141,000
Other dry bond glues	1,374,000	1,445,000

* Revised

Naval Stores

Canadian demand for pine oil for mineral flotation has been higher in 1952 than it was in 1951 and one large supplier has had to decline new business, according to information from the Department of Commerce. Dipentene is scarce and is being distributed on an informal quota basis.

Limed tall oil is being favorably received by paint manufacturers, the department added. One distributor reported that his sales increased sharply during the second quarter of 1952.

Rosin, Gum

(USDA, per 100 lbs.)

	Fri.	Mon.	Tues.	Wed.	Thur.
K	...	...	...	7.29*‡	7.31*
M	...	7.32*	7.32*	7.31*	7.23‡
N	7.17‡	7.32*	...	7.33*	7.25‡
WG	...	...	...	...	7.31‡
WW, X	7.58*‡	...	...	7.67*	7.63*‡

Sales, USDA

270*	4¶	630*	2,762*	622*

Savannah Exchange (per 100 lbs., dms.)

Receipts	100	...	71	172	...
Shipments	...	...	120	...	...
Stocks	9,293	...	9,244	9,416	9,416

New York
(per 100 lbs., c.l., Friday)
B-N, $8.35; WG, $8.50; WW, $8.80.

Rosin, Wood

(USDA, per 100 lbs.)

FF	...	5.08*†	6.38*†	4.31*	...

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	...	...	...	.53†	.535†	.533†
Sales	...	...	...	...	16.000§	6.000§

Savannah Exchange (dms.)

Receipts	137	...	175	...	76
Shipments	...	...	62	...	245
Stocks	2,136	...	2,249	2,249	2,080

New York, Friday, per gal. 7 lbs., tankcars, 63c., l.c.l., 73½c.

Turpentine, Wood, Steam Distilled

(USDA, per 7 lb. unit)

...	.45†	...	.44†	...

*Drums. †Tankcars. ‡Bags. ¶Carlots. §Gallons.

Gaillard Private Seminar To Be Held Jan. 26-30

Dr. John Gaillard, mechanical engineer of the staff of the American Standards Association and lecturer at Columbia University, will hold his next five-day private seminar on industrial standardization from Jaunary 26 to 30, 1953, in the Engineering Societies Building, New York.

The session will consist of ten conferences, one in the morning and one in the afternoon, Monday through Friday. At each conference a subject on the seminar program will be presented by Dr. Gaillard and then discussed around the table. For further details and registration, those interested may write to Dr. Gaillard, 400 West 118th street, New York 27, or phone him at the ASA office, MUrray Hill 3-3058.

Brown Chemicals Formed

Edward B. Brown has announced the formation of Brown Chemicals, with headquarters at 15 Moore street, New York. The telephone number is WHitehall 3-0960. The company will engage in the manufacturing, chemical processing, importing and distributing of vegetable oils and vegetable oil specialties.

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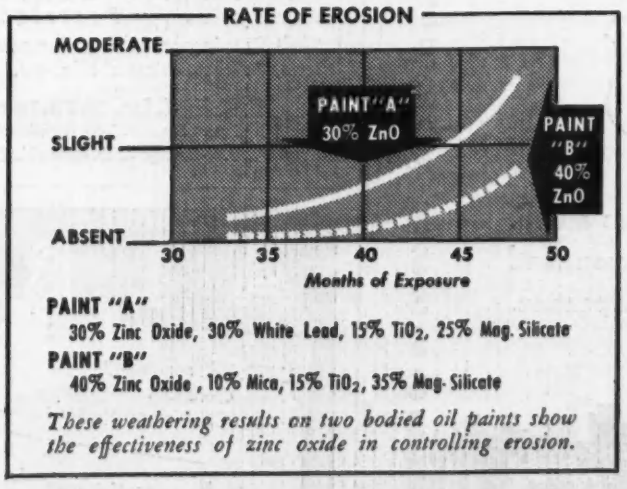
PAINT PROGRESS NEWS
A supplement to PAINT PROGRESS—the house organ issued by The New Jersey Zinc Company for over a decade to help the paint industry make better paint and promote paint sales.

Major Advance in Formulation of Outside House Paints Proves...

Zinc Oxide Most Effective For Erosion Control

THE marked improvement in performance of white and tinted outside house paints in recent years stems in large measure from the industry's development of the slowly-eroding type of finish—which provides self-cleansing properties, longer service life and better repaint surfaces.

Such paints consist of a skilful balance of zinc oxide with softer pigments in a bodied oil vehicle. Leading paints of this type contain about 30% zinc oxide by weight of pigment, as zinc oxide has been found most effective in controlling the rate of erosion.



PAINT "A"
30% Zinc Oxide, 30% White Lead, 15% TiO_2, 25% Mag. Silicate
PAINT "B"
40% Zinc Oxide, 10% Mica, 15% TiO_2, 35% Mag. Silicate

These weathering results on two bodied oil paints show the effectiveness of zinc oxide in controlling erosion.

Zinc oxide retards erosion by protecting and strengthening the film in these 4 principal ways:

1. Toughens the film by soap formation—
Zinc oxide reacts with fatty acids in the oils to form zinc soaps that reinforce the binder and, in addition strengthen the film by more effective bonding of the pigments.

2. Shields the binder from ultraviolet rays—
Zinc oxide is opaque to harmful rays of the sun, thereby retarding embrittlement of the binder.

3. Strengthens the film by mechanical reinforcement—
Zinc oxide reinforces mechanically through the unusual shapes of its particles — multi-facets, "jacks", plates, spicules and aciculars.

4. Protects the binder by neutralizing acidic by-products—
Zinc oxide reacts with short-chain acids formed by oxidation of the binder. This retards embrittlement of the binder and, at the same time, provides zinc compounds that furnish self-cleansing of the film.

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Hilton-Davis Appoints Two Agents for Its Colors Line

Expanding its program of direct service to the protective coatings industry, the Hilton-Davis Chemical Company Division of Sterling Drug, Inc., Cincinnati, Ohio, has appointed two technical sales representatives to handle its line of flushed and dry colors. The firms are Thompson-Hayward Chemical Company, St. Louis, Mo., and J. C. Ackerman Company, Pittsburgh, Pa.

Henry C. Miller, of Thompson-Hayward, will represent Hilton-Davis in the St. Louis market, covering the territory between Cedar Rapids, Iowa, and Cairo, Ill. Mr. Miller has called on the paint trade in this region for the last eighteen years. Representing Hilton-Davis in western Pennsylvania will be Dr. B. G. Wilkes, jr., of J. C. Ackerman Company, who for more than fifteen years was associated with chemical sales development research for Carbide & Carbon Chemicals Company at Mellon Institute, Pittsburgh.

Central Soya Introduces New Soybean Oil Meal

Central Soya Company, Fort Wayne, Ind., has introduced "Central New Process" meal, a new type of soybean oil meal. Chief claim made for the new hexane-extracted meal is the greater availability of protein it offers. According to the company, its improved solvent extraction process explodes the cellular structure inside each soybean flake, releasing the protein and making it more available to digestive action. At the same time, it is said, an even film of moisture surrounding each flake protects and improves the nutritional values of the protein.

Brazil Oiticica Picks Agent

Brazil Oiticica, Inc., New York, has announced the appointment of George C. Brandt, Inc., as exclusive sales agents for Minnesota, Kansas, Iowa and Colorado. The Brandt company has offices located at 760 Vandalia street, St. Paul, Minn., and at 1401 Fairfax Trafficway, Kansas City, Kan.

Baker Castor Oil Appoints

Baker Castor Oil Company, New York, has announced the appointment of Frank Walsh as sales representative for the middle Atlantic region. Mr. Walsh's territory will consist of eastern Pennsylvania, Delaware, Virginia, Maryland, North Carolina and South Carolina, while his headquarters will be in Philadephia. Prior to joining Baker, Mr. Walsh was on the sales staff of Merck & Co., Rahway, N. J.

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Dependence on Government Perils Security, Ward States

Dependence on government for security involves a danger that can lose the American people the very security they desire, William H. Ward, a vice-president and director of E. I. DuPont de Nemours & Co., Wilmington, Del., told a meeting of the Cleveland Paint, Varnish and Lacquer Association last week.

"The real source of economic security is our technology, our system of industrial production," he said, and the government "could not even dream" of the programs it promotes "if it were not for the wealth our technology produces."

But due to lack of information too many people ignore the reason for the well-being of all, and support legislation which can do nothing in the long run but deprive them of the very advantages which they think they are doing their best to preserve, Mr. Ward declared.

"Unless the American people recognize the true source of economic security and guide their efforts so that it can be cultivated and protected they are in peril of defeating their own ends," he said. "If in their search they unwittingly do things that hamper and stultify the true source of security, the result could be so disastrous that there would be security for no one."

Too many people regard government as the source of security "and expect it to see that their economic present and future are taken care of," Mr. Ward said. "Economic security lies primarily in the production of wealth—and the government produces no wealth."

The majority of Americans do not recognize the true source of security. The trend in government "seems calculated to injure it," he said, adding, "the government would not be doing this if it did not believe that its actions had the support of the majority of Americans."

Pitts. Plate Opens Georgia Plant, Expands in Baltimore

Pittsburgh Plate Glass Company, Pittsburgh, Pa., has announced the opening of a new paint manufacturing plant and office building at East Point, Ga., six miles southwest of Atlanta. At the same time, the company revealed that it has expanded its manufacturing facilities in Baltimore, Md., for the production of the tapered synthetic brush filament, "Neoceta".

The East Point facility is said to be the largest paint manufacturing plant in the vicinity of Atlanta and one of the largest in the southeastern United States. John F. Green, formerly manager of trade sales service at the company's Milwaukee, Wis., paint factory, will manage the East Point operation. Originally rated to produce 1,500,000 gallons annually, the plant is so designed as to allow for further expansion of production without structural changes.

Brown-Allen Names Agent

Brown-Allen Chemicals, Inc., New York, has announced the appointment of John H. Calo & Co., New York, as sales agent for its line of oil and chemical products in the metropolitan New York area. The Calo company represents Hercules Powder Company, Reynolds Metals Company, and was formerly distributors for Brown Oil & Chemical Company.

Plaskon Div. Adds White

Robert K. White has joined the Plaskon Division of Libbey-Owens-Ford Glass Company, Toledo, Ohio, as a merchandising specialist for the company's plastic markets' products. Mr. White joins Plaskon after four years in the sales and merchandising departments of Swift & Co., Chicago.

Staley Names Holzhauer

A. E. Staley Manufacturing Company, Decatur, Ill., has announced the appointment of W. C. Holzhauer as exclusive agent for the New York market in the sale of Staley's vegetable oils. Burt Riggs will be in charge of industrial sales for the Holzhauer organization.

Monsanto Opens New Office

The plastics division of Monsanto Chemical Company has opened a Cincinnati, Ohio, sales office, bringing to six the total number of divisional sales offices operating east of the Rocky Mountains.

Platy Mica Extender Bulletin Issued

The Wet Ground Mica Association has issued Technical Bulletin No. 11, entitled, "An Investigation of the Effect of A Platy Mica Extender on the Behavior of Vinyl Primer Materials—Part II." Besides illustrations, the bulletin contains an introduction, and sections on materials used, fineness of grind, application, tests on coated panels and a summary.

Stainless Steel Strip Output Announced by Amer. Silver

Stainless steel strip, rolled to precision tolerances and ultrathin gauges, for use in the manufacture of chemical processing equipment, is now available from the industrial division of the American Silver Company, Flushing, N. Y. Stainless steels are produced in strip up to 8 inches wide and down to .0005 of an inch thin, to tolerances as close as plus or minus .0001 of an inch. The strip is available in any quantity from one pound to thousands of pounds, the producer reports.

Trade Briefs

The O'Brien Corporation, South Bend, Ind., has announced a new rubberized traffic paint.

McDougall-Butler Company, Buffalo, New York, has named Nelson M. Ripley assistant factory manager.

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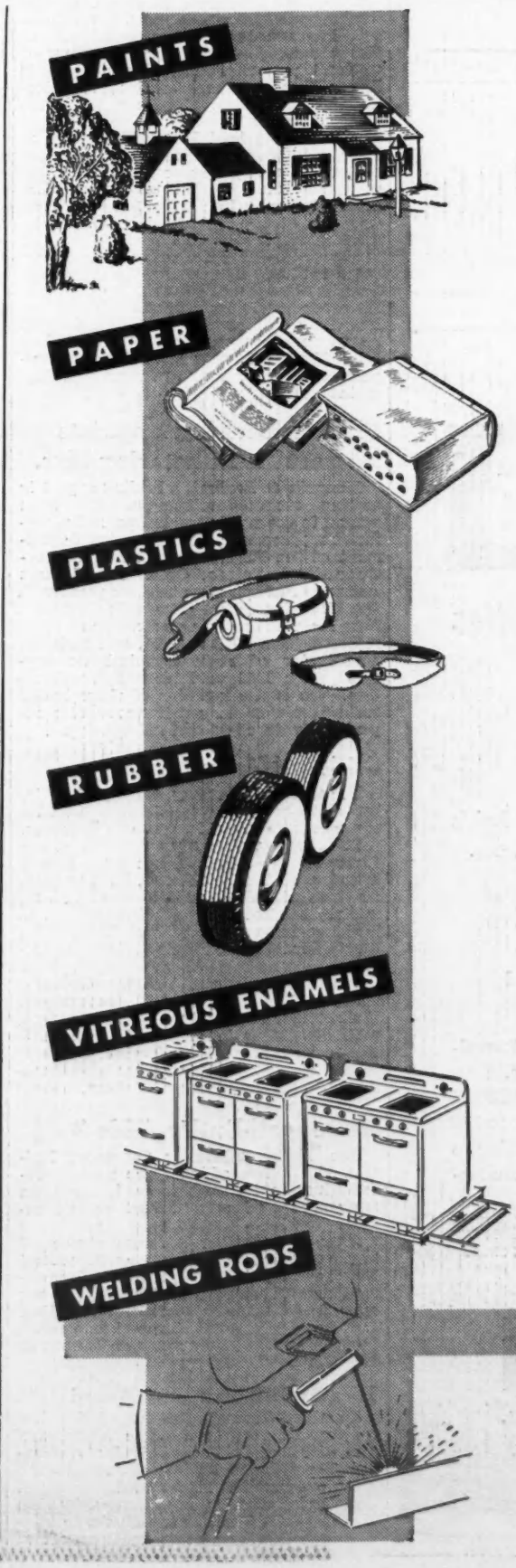

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Skilled technologists and the most modern facilities for research and development are available through Titanox Technical Service for the investigation of new uses for titanium dioxide and titanium compounds. The recent introduction of TITANOX-TG, prime source of *non-pigmentary* TiO_2, makes titanium dioxide available in greater quantities and in a more usable form for the manufacture of improved enamels, heat resistant coatings, glass, welding rod coatings and many other products. New fields of application are now under consideration . . . perhaps Titanox Technical Service can help you.

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Long experienced in the formulation of both pigmentary and non-pigmentary titanium dioxide for use in paints, paper, rubber, plastics and ceramics, Titanox Technical Service is always available for assistance with any formulation problem. Often, these specialists can suggest a change or recommend the use of one of the newer Titanox types which may improve your product.

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Latex Emulsions Catalyst Developed by Nuodex Co.

"Cyclodex," a new catalyst designed to accelerate the curing of many latex emulsions, has been announced by Nuodex Products Company, Elizabeth F, N. J. Test results indicate that "Cyclodex" improves adhesion of latex films and increases film toughness to resist damage or injury by rubbing, scuffing or marring, Nuodex reports. Latex primers containing "Cyclodex" are said to require less time before application of oil or resin type top coats. Better washability of latex emulsions before and after aging is also claimed.

"Cyclodex" is described as a free-flowing, water dispersible liquid easily incorporated into latex formulations. It is said to be economical to use because, where it has been successfully employed, low percentages were required to obtain satisfactory results. A complete report on "Cyclodex," which describes a test method for measuring the washability of latex emulsion paints and obtaining reproducible results, is available from Nuodex on request.

Firestone Plastics Names Edgar 'Velon' Sales Mgr.

Roger S. Firestone, president of the Firestone Plastics Company, Pottstown, Pa., has announced the appointment of Kenneth L. Edgar as sales manager of "Velon" products. Mr. Edgar succeeds Elmer French, who was formerly vice-president in charge of sales and who resigned October 1.

Mr. Edgar joined Firestone in 1940 as a chemical engineer in the general laboratories. During the war years he headed a development section on non-metallic bullet-sealing fuel cells. In 1945 Mr. Edgar was one of the first to join the newly formed vinyl sheetings division of the Firestone Industrial Products Company, out of which later grew the Firestone Plastics Company. In 1946 he was the Firestone film sales representative in the New York and New England area. In 1948 he was made manager of "Velon" film sales. Early this year Mr. Edgar was appointed manager of the "Velon" sheetings division.

Plaskon Division Appoints Earhart Manufacturing Mgr.

Kenneth A. Earhart, a leading expert in coating resin development, has been named to the newly created post of manufacturing manager, coating resins department of the Plaskon Division of Libbey-Owens-Ford, Toledo, Ohio. Mr. Earhart comes to Plaskon after thirteen years with the U. S. Industrial Chemicals Company, New York, where he was director of resin research from 1942 to 1951, and assistant coordinator of resin technical development, from 1951 until his recent resignation. He is the inventor of six patented resin developments and has particular experience with alkyd and silicone types.

Glidden Names New Mgrs.

The Glidden Company, Cleveland, Ohio, has announced the appointment of new managers at three of its southern branches.

R. L. Racey, formerly in charge of the Richmond, Va., branch, has been named manager at Tampa, Fla. C. P. Lambeth, who was with Glidden at Charlotte, N. C., will replace Mr. Racey at Richmond. R. L. Niehaus, former manager at West Palm Beach, Fla., takes on the additional assignment of manager of the Miami, Fla., branch. As part of the same organizational changes, the branch at St. Petersburg, Fla., has been merged with that at Tampa, with Mr. Racey in charge of sales activities in both areas. D. F. Barton, formerly manager at St. Petersburg, has been transferred to the southeastern division.

McDougall-Butler Adds 3

The McDougall-Butler Company, Buffalo, N. Y., has added three new representatives to its sales force, it has been announced by Frank G. Peni, sales manager.

Alex R. Schreiber has been appointed to cover northeastern and north central New York State. For the states of Connecticut and Rhode Island, the company has appointed George D. Rerio, while William E. Dennis will augment the present sales force in Ohio, concentrating on Cleveland and Cincinnati.

Mica Ass'n Wins Service Award

The Wet Ground Mica Association has received an American Trade Association executives award of merit for distinguished service to its industry and to the American public. This award, for small trade associations, was presented by Don C. Bliss, U. S. Minister to Canada, to Miss Elizabeth Clarkson, secretary-treasurer of the association, and vice-president of Stewart N. Clarkson Associates, Inc., association managers, at the annual convention of ATAE in Toronto recently.

Trade Briefs

Columbian Carbon Company has added twenty-five hopper bottom cars to its rail fleet.

William J. Buckles has been appointed general sales manager of the Celite Division of the Johns-Manville Corporation.

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Heads New Bakelite Unit

Howard Smith has been named manager of the newly-formed industrial products department of Bakelite Company, a division of Union Carbide & Carbon Corporation, New York. In his new post Mr. Smith will be responsible for the operations of the consolidated surface coatings division, "Halowax" products division and sheet and foil division. Carl W. Patton, M. E. Delaney and T. W. Sharp, respectively, have been appointed managers of the three above divisions.

GSA Seeking Chemicals For Shipment to Formosa

The Emergency Procurement Service, General Services Administration, is asking for bids on chemicals for shipment to Formosa, under Mutual Security Agency procurement authorization No. 84-390-99-990-3513. Bids will be received from other countries in addition to the United States. Bidders in the United States may offer delivery f.a.s. United States port, f.a.s. foreign port, or f.o.b. shipping point.

Commodities required are:—Dibutyl phthalate, thirty short tons; dinitrotoluene, ninety short tons; diphenylamine, twelve short tons, potassium sulphate, twelve short tons, and antimony sulphide in lump form, 1,650 pounds. The scheduled opening of bids is October 27. Firms wanting to bid should request the necessary information by citing the number 2L-N-19292-R-10-27-52). Requests should be directed to the attention of the procurement officer, L. L. Lieberman, room 7109-C, GSA, Seventh and D streets, S. W., Washington, D. C. Telephone number is REpublic 7500, extension 3976. Other details are contained in MSA small business circular No. 498.

Cactus Chemical Appoints Green Technical Director

Cactus Chemical Company, Houston, Tex., a newly-formed concern, has appointed Charles E. Green technical director. Mr. Green was formerly chief of physical chemical research at the engineer research and development laboratories at Fort Belvoir, Va. Initially, Cactus plans to process fats and oils and to produce their derivatives. The company's first unit, which is due to go on stream this month, will produce highly purified fatty acids by a new process, details of which are being withheld pending completion of patent applications.

Stockpiling Intensified

—Continued from page 3

also furnish a basis for any extraordinary measures to be taken.

2. The Munitions Board and civilian agencies will estimate needs for these materials, which shall reflect "not projections of historical data, but realistic appraisals" of needs. DPA is given access to the bases underlying the Munition Board's estimated requirements of military "A" items in order to facilitate the preparation of reliable estimates.

3. Both civilian and military agencies will work to conserve the scarce materials and each quarter they are to prepare a list of feasible conservation recommendations and set quantitative goals for each recommendation where practicable.

4. The Defense Materials Procurement Agency will expand its program for exploration to find needed materials and for their production and the Mutual Security Agency is directed to encourage expansion of production of the needed materials in friendly countries.

Hilton-Davis Names Moore Technical Sales Lab Head

Appointment of Norman Moore as chemist in charge of its newly-opened technical sales laboratory, serving the protective coatings industry, has been announced by Nelson S. Knaggs, vice-president in charge of sales of the Hilton-Davis Chemical Company, a division of Sterling Drug, Inc., Cincinnati, Ohio.

Prior to joining Hilton-Davis, Mr. Moore was a chemist at Perfection Paint & Color Company, Indianapolis, Ind.; Frederick A. Stresen-Reuter Company, Chicago, and Interchemical Corporation's finishes division, New York.

Carbide Offers Plastics, Resins Data

Properties and uses of more than fifty Bakelite and "Vinylite" plastics and resins are described and illustrated in the new, revised reference file published by Bakelite Company, a division of Union Carbide & Carbon Corporation, New York. Copies of the "Condensed Reference File of Bakelite and Vinylite Plastics and Resins" are available to business firms who send their requests to the company, at 300 Madison avenue, New York 17.

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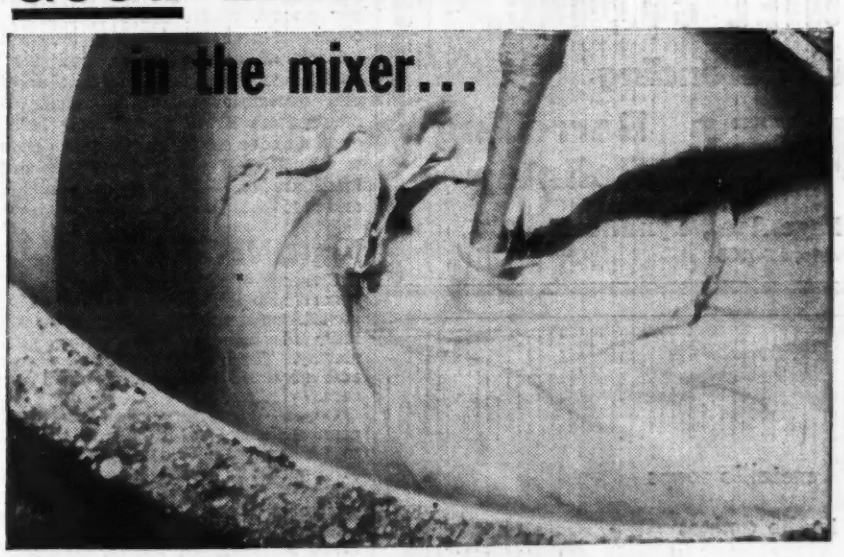

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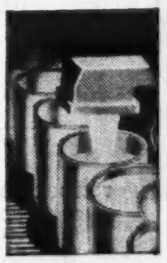

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Take a look at the chart below for an idea of some of the many oils supplied by National Lead. And remember we also produce oils to your own specifications.

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NAME AND NUMBER	Viscosity (G-H)	Acid Number	Sapon. Number	Specific Gravity at 15.5° C.	Color (Gardner)	PROCESS	REMARKS	USES
1 Raw	A	2-4	189-195	.931-.935	11-12	Aged and filtered		
2 Pale Boiled	B	4-6	189-195	.937-.941	10-11	Driers added in special processes	Light color	Thinning pastes
4 Kettle Boiled	B	5-7	189-195	.938-.942	14-15		Fast drying, durable	Thinning pastes, exterior paints, shingle stains and tarpaulin paints
5 Kettle Double Boiled	B	5-7	189-195	.939-.944	17-18		Similar to #4—more driers	
11 Aged Raw	D	3-7	195-200	.940-.952	8-10	Oxidized	Low viscosity	Printing inks, patent leather, linoleum and oil cloth
12 A. T. Bodied Raw	O	4-6	208-215	.960-.965	8-9		Medium viscosity	
13 Heavy Bodied Raw	Z2	4-8	215-230	.995-.999	8-10		High viscosity	Flat paints
14 Heavy Bodied Boiled	Z2	4-8	215-230	.995-.999	8-10	Oxidized with driers added	Similar to #13	
16 Bleached Bodied Boiled	Z2	4-8	215-230	.995-.999	6-8		Light color	Flat white paints
17 Miscible Blown	Z2	4-6	215-230	.995-.999	7-8	Specially processed	Good thinner miscibility	High volatile content paints
21 Stainless Raw	A	2-4	189-195	.931-.935	11-12	Chemically treated	Low staining	Grinding white pastes
23 Grinders'	A	9-12	189-195	.931-.935	7-8	Acid refined	High acid number	Grinding high lead content pastes
25 Refined	A	4-6	189-195	.931-.935	5-7		Medium acid number	Exterior house paints
27 Zinc	A	2-3	189-195	.931-.935	6-5	Chemically treated	Low acid number	High zinc content paints
30 Non-Break C. T.	A	2-4	189-195	.931-.935	11-12	Chemically treated	No break at varnish cooking temperatures	Low cost varnishes
31 Non-Break S. H.	A	2-5	189-195	.931-.935	11-12	Mechanically treated		
33 Diamond V	A	5-9	189-195	.931-.935	9-11	Acid refined	High acid number varnish oil	High drier content varnishes
35 General Purpose	A	2-4	189-195	.931-.935	5-6	Bleached	Light colored varnish oil	Varnishes and paints
37 A. A. Varnish	A	2-3	189-195	.931-.935	5-6	Chemically treated	Medium acid number varnish oil	Light colored varnishes
41 E. W Varnish	A	1-3	189-195	.931-.935	4-5		Low acid number varnish oil	
43 Perfection	A	0.1-0.6	189-195	.931-.935	4-5	Alkali refined	Very pale and neutral	Highest grade varnishes
45 Bodifast	A	0.1-1.0	189-195	.931-.935	5-6	Alkali refined and specially treated	Fast bodying	For fast kettling operations
47 Superfast	B	2.0-3.0	195-205	.941-.945	6-7		Extremely fast bodying	For extra fast kettling operations
51 Pale Heat Bodied A+	A+	1.5-3	189-195	.931-.935	4	Heat bodied	Pale color, uniform viscosity; may be blended to obtain other viscosities.	Paints, enamels and varnishes
53 Pale Heat Bodied Q	Q	3-6	189-195	.952-.957	5-6			
55 Pale Heat Bodied Z2	Z2	9-11	189-195	.965-.970	6-7			
57 Pale Heat Bodied Z5	Z5	10-12	189-195	.967-.972	6-8			

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Oils, Fats and Waxes

Buying interest for oils and fats slackened last week and bulk of trading was limited to prompt requirements. Cottonseed oil was unchanged and steady, while peanut was sharply higher due to the scarcity of available supplies. Soybean oil became stronger, advancing fractionally for prompt and future delivery. Coconut oil remained steady on the Pacific coast, while New York market was higher due to scarcity of stocks.

Fancy and extra tallow declined slightly, while lower grades were unchanged. The market developed a steadier tone under improved trading for both large and small consumers account. Export business continued light. Trading in other animal oils was confined to immediate needs. Oleo oil was active and fractionally higher, while oleo stearine was easier declining sharply.

Oilmeals were lower, lead by soybean meal which was weaker and off $4 per ton. New crop peanut meal also was weaker, dropping $8 per ton below recent prices obtained for old crop meal. Linseed meal was inactive and held at ceilings, though lower cost of competing meals unsettled the market.

Demand for drying oils was inactive. Tung oil was unsettled and off fractionally for prompt and forward delivery. Interest in oiticica continued to lag. Trading in linseed oil was restricted to small lots for immediate needs and quotations were nominal at the recent decline of ½ cent per pound, which could have been discounted for carlots.

Lack of consuming demand for carnauba wax kept local market unsettled and quotations merely nominal. Shipments from Brazil were firmly held and quoted above stocks on the spot. Beeswax was quiet, but steady for crude and refined grades. Ouricury continued quiet and soft.

Market Trends

Prices Advanced

Copra, $10 per ton.
Oil, coconut, crude, N. Y., 1½c. per lb.
Pac. coast, 1c. per lb.
Oleo, ½c. per lb.
Peanut, crude, 1c. per lb.
ref., ¼c. per lb.
Soybean, crude, ¼c. per lb.
ref., ½c. per lb.

Prices Reduced

Oil, corn, crude, ¼c. per lb.
ref., ¼c. per lb.
Tung, ¼c. per lb.
Oleo stearine, 1c. to 1½c. per lb.
Peanut feed, $8 per ton.
Soybean meal, $4 per ton.
Tallow, extra, ½c. per lb.
fancy, ½c. per lb.
Wax, carnauba, No. 3, crude, 2c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 19, 1951
113.15	113.55	107.76	134.50

(For Current Prices see Page 9)

Vegetable Oils

Coconut—Crude was stronger and advanced sharply. Sales reported at 12c. per pound, tankcars, f.o.b. Pacific coast and later offerings were raised to 13¼c. for nearby. The New York market was firmer and advanced to 14¾c. per pound, tankcars.

Copra—Demand was active for European delivery, and shipments were lifted to $180 per ton, f.o.b. Pacific coast and $185 per ton, New York basis.

Corn—Trading was light. Crude oil was easier sold at 14¼c. per pound, tankcars, f.o.b. mills. Refined oil was lower at 17⅜c. per pound, tankcars, New York delivery.

Cottonseed—Trading in bleachable cottonseed oil futures was light last week. Market was irregular and slightly lower, reflecting the weakness of allied markets and securities. Unsettlement in soybeans and lard brought out some liquidation, with trade interests supporting November and December. The October delivery expired last Wednesday, with closing sales at 15.99c. This increased trading in November. There was a noticeable absence of hedge trading due to tenders of additional quantities of oil to the government under the support plan. Trade estimates placed the quantity held by the government at about 2,000 tankcars of crude oil. Tenders on October contracts were increased to 175 and stopped. Crude oil remained steady, with trading at 13¾c per pound, tankcars, f.o.b. mills, Southeast and Valley and 13⅜c., Texas.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Oct. 17 follow:—

	Sales	Cents per pound High	Low	Close
October	85	16.00	15.91	Expired
November	37	15.90	15.83	16.04@16.10
December	295	16.12	15.83	16.10S
March	249	16.20	15.94	16.21S
May	144	16.30	15.99	16.25S
July	65	16.33	16.00	16.30S
September 1953	9	15.52	15.46	15.49@15.60
December	2	15.50	15.30	15.49N

Total sales, 906 contracts.

Memphis.—Crude soybean oil trading at 10½c. per pound, tankcars, f.o.b. mills, Decatur, through next March. Crude cottonseed oil nominal at 13¾c. per pound, tankcars, f.o.b. mills. Market quiet and weak. Good demand for cottonseed meal. Offerings continued light in this section and in the West. Meal available in the southeast at ceiling for October-December shipment. Southern soybean meal 41 percent expeller and 44 solvent in ample supply and offered below ceilings at about $90 per ton, sacked Memphis, prompt shipment.

Linseed—Consumers continued to limit trading to less carlot quantities for immediate requirements. Withdrawals of oil against former contracts were fairly active. However, interest in later requirements continued slow. Raw oil was generally lower, following the decline of ½c. per pound noted the week previous. Crushers were offering raw oil at 15c. per pound, tankcars, f.o.b. Minneapolis and at 16¼c. per pound, tankcars, New York delivery.

Minneapolis.—Linseed oil sales were very light the past week but crushers were receiving a good volume of shipping directions against old contracts. The official quoted price raw oil held steady at 15c. per pound, in tankcars, f.o.b., Minneapolis, but there were still some reports of trades being made at 14.8c. a pound. There was no feature to the trade as only replacement bookings were being made.

Shipments of linseed oil, in pounds, were as follows:—

	1952-53	1951-52
Past week	8,460,000	8,700,000
Since Sept. 1	61,920,000	59,700,000

Flaxseed—Trading was light. Market was easier early, but rallied and was firmer at the close.

Minneapolis.—Flaxseed followed an irregular course last week, although the undertone of the cash market closed steadier. Crushers reduced bids another cent per bushel, offering to pay 2 cents a bushel under the spot futures price for cash offerings. Late in the week, bids were down around $4.05 for No. 1 flaxseed after starting out at $4.09. Purchases in the spot cash market totaled 70 cars and around 12,000 bushels in trucklots while bookings "to-arrive" amounted to 61 cars and in excess of 108,000 bushels in trucklots. Storage space for flaxseed and other grains were becoming more scarce at the Minneapolis and Duluth terminals, crushers reported. Shipments from Minneapolis totaled 107 cars last week, compared to 129 cars in the preceding week and 55 cars a year ago. Receipts amounted to 546 cars as against 716 cars in the previous week and 55 cars a year ago.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts 1952-53	Receipts 1951-52	Shipments 1952-53	Shipments 1951-52
Past week	928,200	1,732,300	181,900	127,500
Since Sept. 1	8,296,300	9,580,000	954,850	1,320,900

Oiticica — Business continued slow. Prices were unchanged and nominal. Refined oil was quoted at 22c. per pound, tankcars, New York, prompt delivery, with little buying interest. Drums were quotably unchanged at 23½c. to 24c. per pound, on spot, depending upon quantity.

Olive—While business continued spotty, the market remained steady. Stocks on spot were held at $2.40 to $2.50 per gallon, drums, duty paid, depending upon quality and quantity. Spain has resumed issuing export licenses for edible oil. Demand for olive foots was slow. Drums were quoted at 15c. to 15½c. per pound, spot delivery, as to quantity.

Edible olive oil production in Portugal was officially estimated on August 1, 1952 at only 40,830 metric tons, compared with an estimated 105,667 tons in 1951. The present policy is to allow olive oil to be exported, provided an equal amount of edible oil is imported for local use and sold at established prices. Stocks of edible olive oil on hand September 1 were estimated at 40,000 tons, of which 18,000 tons were in the hands of wholesalers and considered reserves from next season's consumption, which begins November 1. The remainder was held by farmers and crushers.

Palm—This market remained steady at the recent advance, reflecting higher cost of replacements. Drums were held at 12.8c. per pound, on spot and tankcars at 11.1c. per pound.

Peanut — Crude developed a stronger trend and was sold at 18c. per pound, tankcars, f.o.b. mills. Stocks were light and held at 18¼c. Sales of refined were

For Late Market Developments, See Page 4

reported at 21¼c. per pound, tankcars, New York. Peanut crushing still limited.

Soybean—Crude oil was strong late in the week and fractional advance was sustained. October was sold and bid at 10⅞c. per pound, tankcars, f.o.b. mills. November-June was firmer at 10¾c. bid. Refined salad oil was firmer at 13⅝c. per pound, tankcars, New York delivery.

Sales and prices of prime crude soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended Oct. 17 follow:—

	Sales	Cents per pound—High	Low	Close
October	12	10.81	10.80	Expired
November	1	10.75	10.75	10.63@10.75
December	10	10.95	10.60	10.66@10.74
March	5	10.76	10.64	10.76S
May	38	10.85	10.60	10.80S
July	18	10.86	10.70	10.84S
September	2	10.60	10.60	10.70@10.80

Total sales, 86 contracts.

Tung—Trading continued light and restricted to prompt delivery. Market was easy and lower. Tankcars were quoted at 38¼c. per pound, New York, prompt delivery, with sales at this figure. November delivery was sold 37¼c., same basis. Drums ranged from 39¾c. to 40¼c. per pound, according to quantity. Imports totaled 97 tons at New York from Santos last week.

Fats and Greases

Greases — Trading was reported moderate for prompt requirements. Market remained steady at unchanged quotations. Export inquiry was reported quiet. Choice white was quoted at 5⅞c. per pound, tankcars, delivered; yellow, 4⅛c. per pound; house, 3⅞c. per pound and brown, 3½c. per pound, same basis.

Lard—This market was irregular and fairly steady. Cash lard closed at 9c. per pound, tierces, Chicago. Lard stocks in the United States totaled 106,683,000 pounds, October 1, compared with 124,296,000 pounds, September 1 and 28,732,000 pounds, October 1, 1951. The October 1 five year average is 71,509,000 pounds. Lard stocks in Chicago were reduced to 59,421,220 pounds on October 15, against 68,753,858 pounds, October 1 and 8,729,903 pounds, October 15, last year.

Tallow—Slightly lower prices for fancy and extra brought out increased buying interest and soapers were purchasers at the lower levels. Export business was reported slow. Fancy was quoted at 5⅝c. per pound, delivered; extra, 5⅜c. per pound; special, 5c. per pound, and No. 1, 4⅜c. per pound, same basis.

Animal Oils

Consumers demand continued restricted to small lots for immediate needs. Grease and tallow oils were unsteady, reflecting the recent fractional decline in tallow and greases. Neatsfoot oil was quotably unchanged and fairly steady. Oleo oil was firmer with sales reported at 14c. per pound, carlots. Oleo stearine was weaker and nominal at 9c. to 10c. per pound barrels, as to quantity.

Fish Oils

Cod—Consuming inquiry for shipment was reported slow. Tanked oil was quoted at 8½c. per pound, drums, exdock. Stocks on spot were nominal at 10c. to 10½c. per pound, drums, as to quantity.

Refined—Demand was light and spotty, chiefly for immediate delivery. Prices were without change. Light pressed oil was held at 10½c. per pound, tankcars, New York and alkali refined, 11½c., same basis. Crude menhaden was quiet, but steady at 6½c. per pound, tankcars, Atlantic ports, at 5½c. per pound, Gulf ports.

Los Angeles.—The sardine situation on the Pacific coast is extremely serious. Monterey canners, boat owners, have given up entirely with many offices, including the association's, closed. Large operators here, such as Van Camp, French, Sardine, Westgate-Sun Harbor, etc., have other lines to depend on, but small

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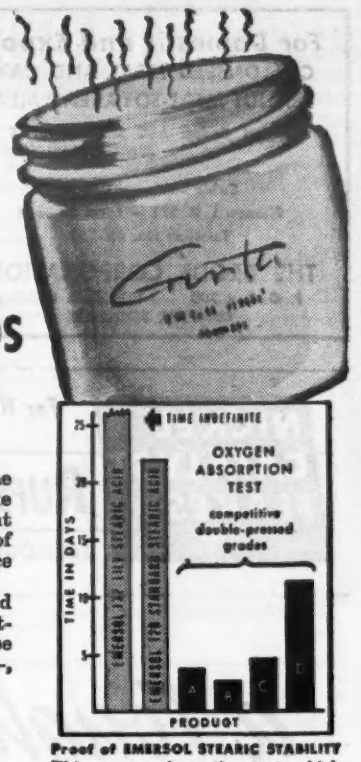

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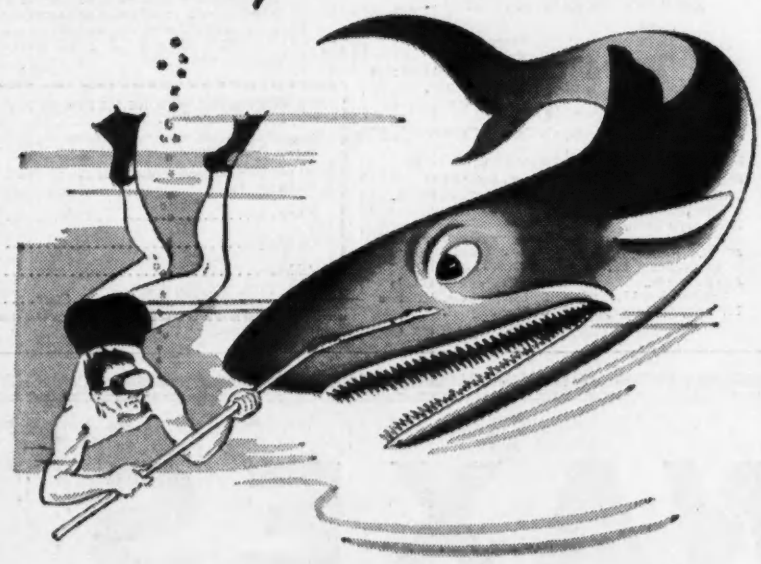

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canners, fish oil brokers, boat owners, are seriously affected. Only reason for any price negotiations at all is that the men are fairly positive no fish are available. Scout boats, together with the 40 percent of the tuna fleet operating, report they have come across no schools whatsoever, nor have airplanes operating close to the water off the Coast. San Pedro sardine landings through October 13 for season none, against—45,109 tons for same period last year. Crude tuna oil was nominal at 5c. per pound, f.o.b. San Pedro. Alaskan herring oil quoted 6.75c.-7c. per pound, f.o.b. Seattle. Crude mackerel oil offered at 6½c. per pound, f.o.b. San Pedro, with no trading reported. Menhaden quoted 5½c. per pound, f.o.b. Gulf ports.

Cake and Meal

Cottonseed Meal—Oil mills continue to tender meal to the government under the package deal, which gives them no incentive to sell at less than their ceiling price. Demand is only fair and some resellers are forced to cut prices as much as $2 per ton in order to get shipping instructions. Meal in the southeast particularly, is available in ample quantities for about any shipment.

Linseed Meal—Market was quiet and nominal. Cheaper soybean meal unsettled the market.

Minneapolis.—Linseed meal trading was largely nominal as most crushers were out of the market, unwilling to offer straight meal at the ceiling of $78 a ton, bulk, in carlots, f.o.b., Minneapolis. It was largely a reseller business, with brokers offering meal at around $80 a ton, bulk. Some straight linseed meal was offered to regular customers but, generally, the market was stalemated. The trade noted the OPS announcement which sounded the death knell for linseed meal mixtures. OPS said it had in readiness an amendment to the general ceiling price regulations which would prevent crushers from short-cutting the present 80 percent mix ruling. In other words, if a crusher wanted to by-pass the 80 percent rule, he would have to apply to OPS for a price ceiling on any meal he wanted to make under 80 percent of straight meal. The OPS order, officials said, was ready for use "if and when" it would be needed. Meanwhile, shipping direction against old contracts continued excellent.

Shipments of linseed meal, in pounds, were as follows:—

	1952-53	1951-52
Past week	15,740,000	15,840,000
Since Sept. 1	91,320,000	97,360,000

Peanut Feed—The general market on 45 percent old process peanut feed is nominal at $92 to $93 per ton sacked f.o.b. Georgia mills, but very limited quantities available. There is hardly enough trading to establish a market, but the pressure on soybean meal is tending to lower asking prices for peanut feed.

Soybean Meal—There was considerable selling pressure on the soybean meal and buyers, for the most part, absorbed only immediate requirements. Large processors were forced to cut their prices for immediate shipment in order to get shipping instructions. Bulk meal 44 percent was available at $80 per ton for immediate October, $84 November-December, and $85 January through April, bulk, Decatur. Southeastern production meal was available at $82 bulk, per ton f.o.b. Mississippi production points, October through December. Quite a few of the larger soybean meal buyers feel that present prices are fairly attractive, but prefer to hold out for the possibility of a little further slump, provided mixed feed demand does not pick up.

Waxes

Carnauba—Quiet consuming demand continued to keep this market unsettled. Stocks on spot were dwindling, but were adequate to meet light current needs. Prices were more or less nominal. No. 3 crude was quoted at 93c. to 94c. per pound and refined, 98c. to $1 per pound, spot depending upon quantity. No. 1 yellow was held at $1.26 to $1.28 per pound and No. 2, $1.24 to $1.26 per pound, as to quantity. Shipments from Brazil were firm and quoted above the local market.

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1—#7 Sweetland Filter with 20 steel leaves, 4" centers, NEW 1951.

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2—Oliver 5'3"x3' Enclosed Precoat Filters.
1—Bird 36"x50" solid bowl Continuous Centrifuge, SS, 40 HP.
1—Fletcher 48" Suspended Centrifugal, aluminum perforated basket, motor driven.
1—Fletcher 40" Suspended Centrifugal, stainless perforated basket, motor driven.
2—Tolhurst 32", 26" Suspended Centrifugals, Monel perforated baskets, motor driven.
3—Buflovak 6' diameter Atmospheric and Vacuum Crystallizers.
3—Buflovak 5'x12' Atmospheric Double Drum Dryers.
3—Devine #27 Double Door Vacuum Shelf Dryers, 17—59"x78" shelves.
2—Stokes 30"x8', 3'x15' Rotary Vacuum Dryers.
1—Link Belt Monel 2'7"x8' Roto-Louvre Dryer.
1—Vulcan 4½'x50' Rotary Dryer, ⅜" shell.
1—Albright Nell 60"x80" Single Drum Dryer or Flaker.
1—Hardinge 4½'x16" Conical Steel Lined Ball Mill.
4—Oliver 3'x1', 4'x5', 8'x12', 11'6"x18' Rotary Vacuum Filters.
3—#7 Sweetland Filters with 27 leaves on 3" centers.
3—Shriver 36"x36" C.I. Filter Presses, P&F, 30 chambers, closed delivery.
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4—Green 150, 125 gal. SS, jacketed, agitated Kettles.

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1—Pfaudler 350 gal. glass-lined, jacketed, agitated Reactor.
2—Pfaudler 100 gal. glass-lined Stills with glass-lined Condensers and Receivers.
2—Sharples P-16 Monel pressuretite Centrifuges.
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1—Bird 18"x28" steel, solid bowl, Continuous Filter.
2—Baker Perkins 100, 50 gal. double arm, jacketed Mixers, Sigma-Blades.
1—Eimco 4'x4' Rotary Vacuum Filter with motors, pumps, piping, all on steel base.
2—Raymond 4 roll, high side Mills.
1—#12 Sweetland Filter with 36 steel leaves, 4" centers.
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4—Stokes Rotary Tablet Machines RD4.
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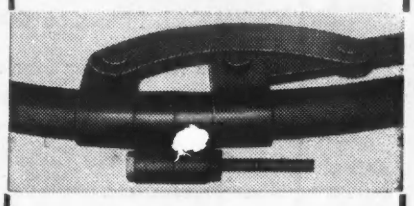

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8—15,000 gal. Vertical Welded Steel Closed Fermenting Tanks, 80 lb. W.P. turbine agitator with 40 HP motor, 970 lin. ft. 3" pipe coil. Excellent condition.
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40—Stainless Steel Tanks—30, 60, 100, 150, 200, 300, 500, 1000, 1400, 2350, 3000, 42,000, 5,700, 16,200 gal.
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56—Stainless Steel and Stainless Clad Steam Jacketed Kettles—10, 40, 60, 80, 100, 150, 200, 500 gal.
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6—Copper Shell & Tube Condensers, 65, 95, 135, 330, 420 and 725 sq. ft.
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6—Stokes Rotary Tablet Presses, B-2, D-3, D-4; 16-punch.
1—Ball & Jewell #1½ Rotary Cutter, stainless steel.
3—Mikro Pulverizers #1-SH, #2-S1, #2-TH.
1—Williams Hammer Mill, Size A, Type AK, Stainless Steel.
1—Hardinge Conical Ball Mill, 4'6" dia. x 24", steel liner.
1—Paul Abbe #6 Porcelain Lined Pebble Mill, 32"x36".
1—Paul Abbe #4A Buhrstone Lined Pebble Mill, 45"x48".
2—Bird 48" dia. Suspended centrifugals Stainless Steel Perforated Basket, Plow Bottom Discharge, 15 H. P. motor.
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4—DeLaval Centrifugal Oil Purifiers, models 600, 74-11 and 94-01.
12—C. I. Filter Presses, 10" to 30" sizes.
3—Filter Presses, 30" & 36", rubber covered P&F, closed dely., washing.
1—Rotary Vacuum Filter, 8'x8' acid-proof, precoat.
1—Feinc Rotary Vacuum Filter, 4'6" dia. x 6' face, aluminum.
3—Sweetland Filters, #5, #10, & #12.
1—Klein Stainless Steel Pressure Leaf Filter, 97 sq. ft.
2—Industrial F & P Mfg. Co. Pressure Leaf Filters, size 18x48 (48 sq. ft.) type RB (rubber lined tank, bronze leaves) with slurry tank, pump & motor.
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1—Broughton style A, size 1, horiz. double arm powder mixer, 50 cu. ft.

8—15,000 gal. Vertical Welded Steel Closed Fermenting Tanks, 80 lb. W.P. turbine agitator with 40 HP motor, 970 lin. ft. 3" pipe coil. Excellent condition.

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Dopp 350 gal. Agitated, Jacketed Vac. Kettle, Condenser and Pump.

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1—Buffalo Vac. Drum Dryer, 24"x20". Also Rotary Vac. Dryers & Vac. Shelf Dryers.
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8—Rotary Dryers. Direct & Indirect. Also Jacketed & Steam Tube.
New Rotary Dryers, Kilns and Coolers

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11—Sharples No. 5A Stainless Centrifuges, 2 HP. also No. 6.
2—De Laval Multi Clarifiers, 300 & 301.

FILTERS

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10—Sperry and Shriver, 12", 18", 24", 30", & 36" iron Filter Presses.
Sweetland & Oliver Vac. Filters.

KETTLES AND TANKS

2—Pfaudler 500 gal. vert. Glass Lined Tanks.
Dopp 350 gal. agit. Jack C. I. Kettle.
Devine 26" dia. Impregnating Unit; closed Jack. Liquor & Impregnating Kettle.
100 gal. Jack. Impregnating Kettle.
1—Steel ASME 275 PSI Closed Pressure Tank, 4½'x10'.
1,000 gal. vert. agit. Stainless Steel Tank.
500 & 1,000 gal. closed Jack. Steel Kettles.
2,000 gal. vert. agit. Jack. Steel Kettle.
8—Jack Kettles, 50 to 2500 gals.
1—250 gal. Lead lined Kettle.
Stainless, alum., Copper, Glass Lined, Lead Lined Kettles and Tanks.
New Stainless Tanks, 50 to 500 gals
4—Steel welded horiz. Tanks, 10,000 & 5,000 gals.
Copper Varnish Kettles, 150 to 300 gals.

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2—Abbe Pebble Mills, 24"x33". Also Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1#00 Raymond Mill 30 H.P., complete.
2—#0000 Raymond Mills
Hammer Mills & Pulverizers, to 50 HP.
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1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 8"x22", 9"x32", 12"x30", 16"x40"
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1—9"x24" 1 Pr. High Steel Roller Mill.
Houchin 18"x36" 4 Roll Granite Stone Mills.
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Baker Perkins double arm Mixers, 100, 50, 9 gals. & 4½ gals. Also single arm Mixers.
Lancaster size 3 Pan Mixer 7½ H.P.
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1—Master Drum type 1000# Blender.
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6—Lead and Paste Mixers, to 150 gals.

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2—Buffalo 6' dia. vac. crystallizers.
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4—French Oil 400 Ton Linseed & Cottonseed Hydr. Presses.
4—French Oil Motor Driven Expellers.
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Filling Machines, liquid paste, powder.
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730 cu. ft., steel.
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157 cu. ft., steel. (NEW).
2.7 cu. ft., copper.
Ribbon 16", Stainless Steel.

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Fuller C-11.
Fuller C-80.
Worthington, 12"x9".
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Worthington, Freon, 140 ton.

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Pan, SS, 22"x22' cc.
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Fuller-Kinyon 5".

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3'x15' Rotary, Vac., Jackt'd., SS clad.
32"x72" Double Drum.
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24"x28"9" Proctor & Schwartz Conveyor.
8'x94' Proctor & Schwartz SS Conveyor.
6'x40' Proctor & Schwartz Conveyor.

FILTERS

#7 Sweetland, 2" spacing, 28 leaves.
36", 35 chambers, center feed, open.
30" Shriver, skeleton.
12" Sperry, aluminum chambers.
11'6"x18' Oliver, all steel.
8'x12' Feinc, all steel.
8'x10' Oliver, wood and steel (3).
8'x8' Oliver, lead covered.
4'x5'3" Oliver, all steel.
3'x4' Oliver, steel.

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10'x90'x9/16" Allis-Chalmers.
8'x80'x¾" Vulcan.
7'6" & 6'6"x125'x½".
7'x60'x¾" with lifters.
7'x160'x⅜" & ¾" (2).
6'x27' Louisville, 4½" SS tubes.
6'x14'x9/16" Struthers-Wells. (NEW).
6'x60'x⅜" with lifters.

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5'x67'x5/16" with lifters.
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4'x35'x½" with burner.

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135,000 gal. 30'x26' with coils.
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8,200 gal. 70"x40'x2" 390 PSI (4).
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3,400 gal. 7'4"x10'x⅜", type 430 SS.
1,250 gal. 4'x14', 106 PSI.
1,050 gal. 4'x12'x½", 106 PSI.
6,500 gal. TANK CAR TANKS.

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MAGNETIC BELTS, 30"x7'5".
DAY, 3-ROLL MILL, 16"x40".
PADDLE MIXER, double shaft, 1,050 gal.
DAYTON MIXER, MODEL 422, 100 gal.
POWDER MIXER, 2,200 cu. ft.
COLTON PRESSES, Model 200RP.
NATIONAL TRANSIT PUMPS, 6x6x18.
STILL, 600 gal., copper, 100 PSI.
MERRICK WEIGHTOMETER, 20 T.P.H.
REBOILER, BRAUN, STEEL TUBES, 2,200 sq. ft.
CLASSIFIER, FLIGHT, 14'9" cc.
CLASSIFIER, DUPLEX, DORR, Type DSFH.

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NEW TANKS
IMMEDIATE SHIPMENT

25,000 gal. 10'6"x39'x¼" or 5/16".
15,000 gal. 10'6"x23'x¼" or 5/16".
12,000 gal. 8'x32'x¼" or 5/16".
10,000 gal. 10'x18'x¼".
8,500 gal. vert. 8'x23'x5/16".
4,100 gal. vert. 5'x28'x¼".

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TANKS—12,000, 15,000 gal., steel.

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1—Day 400-lb. Mixer and Sifter, M.D.
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4—Explosion Proof ½ H.P. portable agitators.
1—Day 1500-lb. Mixer, M.D.
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Argentine Animal Fats, Oils Exports Down in First Half

Argentina's exports of animal fats and oils continued at sharply reduced levels during the first half of 1952, totaling only 1,471 short tons, against comparable six-month-exports of 9,534 and 45,877 tons in 1951 and 1950, respectively, reports M. B. Steele, American Embassy, Buenos Aires. The low level of animal fats and oils exports in the last two years is primarily the result of the virtual depletion of stocks in 1950 because of unusually heavy shipments in the first ten months of that year, and the fact that domestic demand is currently about equal to domestic production. Total shipments of animal fats and oils from Argentina were 14,842 tons in 1951, 78,338 tons in 1950, and averaged about 72,000 tons during 1935-39.

Of the quantity exported during January-June, 1952, 1,181 tons were lard, 257 tons were primer jus, and thirty-three tons were tallow. Lard shipments went principally to Italy, followed by Peru and Finland. The primer jus went to the United Kingdom and the Netherlands, and the tallow to Chile.

In August, 1952, the Argentine Trade Promotion Institute (IAPI) agreed to sell to the Brazilian government 1,000 metric tons of edible lard at a price equivalent to 4.86 Argentine pesos per kilogram (29.4 US cents per pound). According to trade sources a further agreement has been made with Chile for shipment of between 500 and 550 metric tons of lard at a price of 4.75 pesos (28.7 cents).

Calcium Metal Data Offered by Ethyl

A booklet describing a new and unique form of calcium metal has been published by Ethyl Corporation, New York. Entitled "Crystalline Calcium Metal," the booklet outlines the properties and potential uses of the new product, which is being made available in pilot plant quantities. The calcium metal, the booklet explains, is a free-flowing crystalline powder whose unique properties and particle size make it far more chemically reactive than massive calcium. The product has a high chemical purity, consisting of 94 to 97 percent free calcium metal, is essentially free of nitride nitrogen and heavy metal impurities, and ranges in particle size from fifty to 400 mesh, Ethyl states. Because of its finely-divided state, the booklet declares, many new chemical reactions are now feasible. Copies may be obtained from Ethyl's research and engineering department, 100 Park avenue, New York 17.

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Packaging Inst. Opens

—Continued from page 5

Cyanamid Company, acting as chairman. There will be a panel discussion on "Statistical Methods and Their Value in Control of Packaging Materials," with Walter E. Spicer, Lambert Pharmacal Company, as moderator. Taking part will be Dr. Julian H. Toulouse, Owens-Illinois Glass Company, and W. A. MacCrehan, chief of quality control of the Lord Baltimore Press. Robert Mahan, A. H. Wirz, Inc., will speak on "Does Statistical Quality Control Used by a Tube Manufacturer Benefit the User?"

Specifications to Be Discussed

David M. Ashkenaz, Wyeth, Inc., will address the group on "Packaging Specifications: History, Development and Application." Arthur R. Schettal, E. R. Squibb & Sons, will offer a paper entitled, "Developments in Plastic Containers for Packaging," and John A. Elder, jr., Merck & Co., will speak on "Status of Parenteral Closure Problems." E. E. Beauchamp, of the radioisotope development department of Oak Ridge National Laboratory, will speak on "Manufacture, Storage, Handling, Packaging and Shipping of Radioactive Materials." The third of the concurrent sessions will be concerned with "Food Packaging."

Tomorrow morning there will be two concurrent sessions. The first, entitled, "Printed Packaging Materials," will have E. H. Balkema, Colgate-Palmolive-Peet Company, as chairman. The second will be devoted to "Adhesion," and will be presided over by Miss Maurine Ponder, Joseph E. Seagram & Sons, Inc. The first of the seminars will continue through the day.

Production Session

The afternoon session tomorrow will be given over to "Production," and will feature two concurrent seminars and an open committee meeting, with E. R. Hamm, Sharp & Dohme, Inc., as chairman.

Wednesday morning there will also be two concurrent seminars. The first will be "Packaging Small Machines and Equipment," with R. D. Courtright, International Business Machines, as chairman, and the second will be concerned with "Production." At 12:30 p.m. there will be a luncheon, with Dr. Philip W. Swain the principal speaker. His topic will be "Plain Talk on Atomic Power and the Atomic Bomb."

Concurrent seminars Wednesday afternoon will be concerned with "New Developments in the Shipping Container Field" and "Packaging Research and Development." Chairman of the first will be Allyn C. Beardsdell, vice-president of Container Laboratories, Inc., while the chairman for the second will be Charles M. Woodcock, of the package research and development laboratory of General Foods Corporation.

Chemical Industry Reported

—Continued from page 3

032,000 or 27 percent in place on June 30 and $69,106,000 or 35 percent in place on September 30.

Synthetic fibers—Seventeen certificates covering $172,065,000 of costs, $59,113,000 or 34 percent in place on June 30 and $77,809,000 or 45 percent in place on September 30.

DPA said that expansion of facilities covered by certificates of necessity issued through June 30 is expected to reach virtual completion by the end of 1954. The great bulk—94 percent—is scheduled to be completed and in operation by mid-1954; 86 percent by the end of 1953, and 48 percent by the end of 1952.

Programs scheduled for completion by mid-1954 include facilities for alkalies and chlorine, pharmaceutical preparations, compressed and liquefied gases, hydraulic cement, steel works and rolling mills, aluminum refining, electrical machinery, railroad line equipment, petroleum pipeline, natural gas transmission and distribution and natural gasoline.

Expansion programs presently scheduled to be more than 95 percent completed by the middle of 1954 include pulp mills, synthetic fibers, industrial inorganic chemicals, petroleum refining, by-product coke-ovens, blast furnaces, welded and heavy riveted pipe, non-electrical machinery, aircraft and aircraft engines and parts and Great Lake transportation.

Allied Plans Fertilizer Unit

—Continued from page 5

ing studies at the La Platte site have begun and a contract has been awarded to Catalytic Construction Company, Philadelphia. It is contemplated that the Girdler Corporation, Louisville, Ky., will design and erect the gas reforming and purification equipment.

Natural Gas Supply Question

Since the question of natural gas supply to the plant by Northern Natural Gas Company is still before the FPC, final decision on the La Platte location and on the date of start of actual construction on the site cannot yet be made and no local offices will be established at present, the nitrogen division pointed out, adding that the company, meanwhile, is taking all possible preliminary steps ahead of an assured gas supply.

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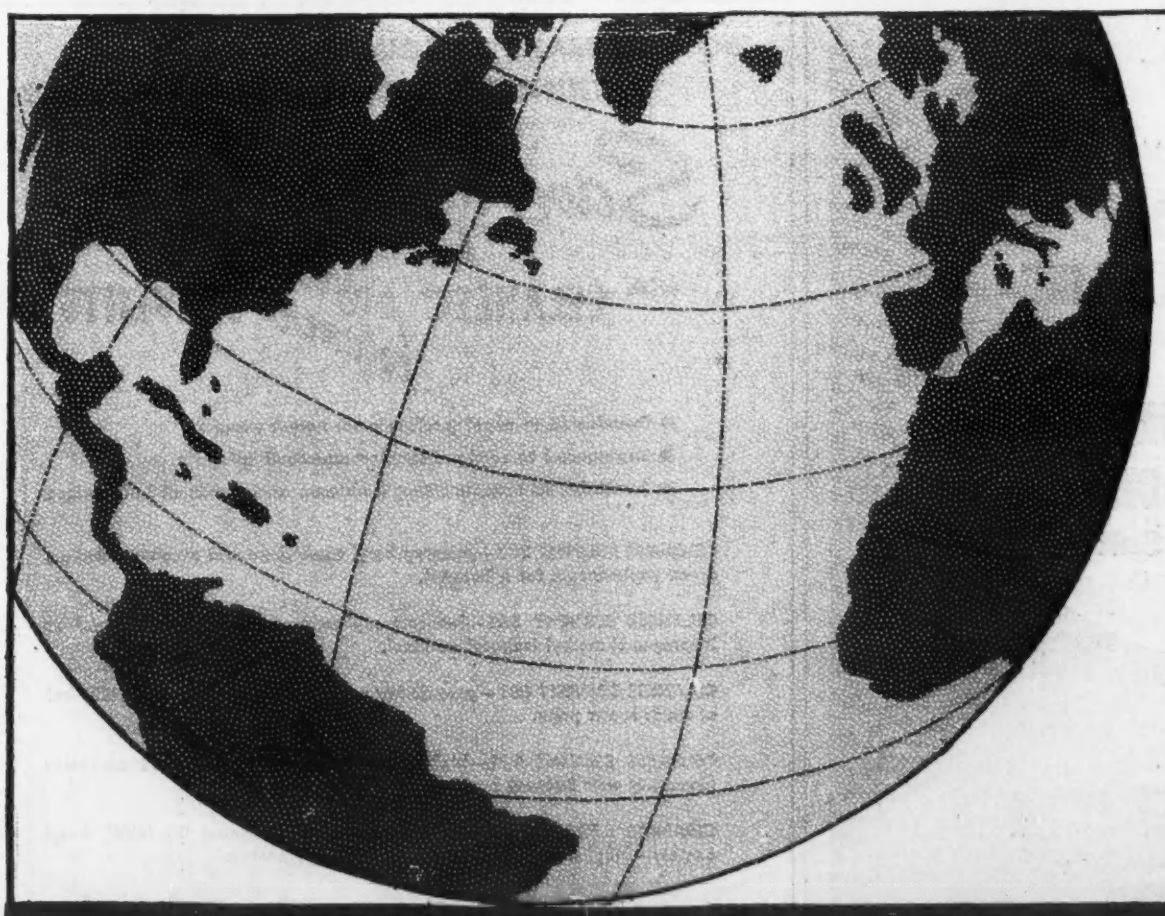

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